

Columbia University  
Bulletin of Information



BARNARD COLLEGE

ANNOUNCEMENT

1955-1956

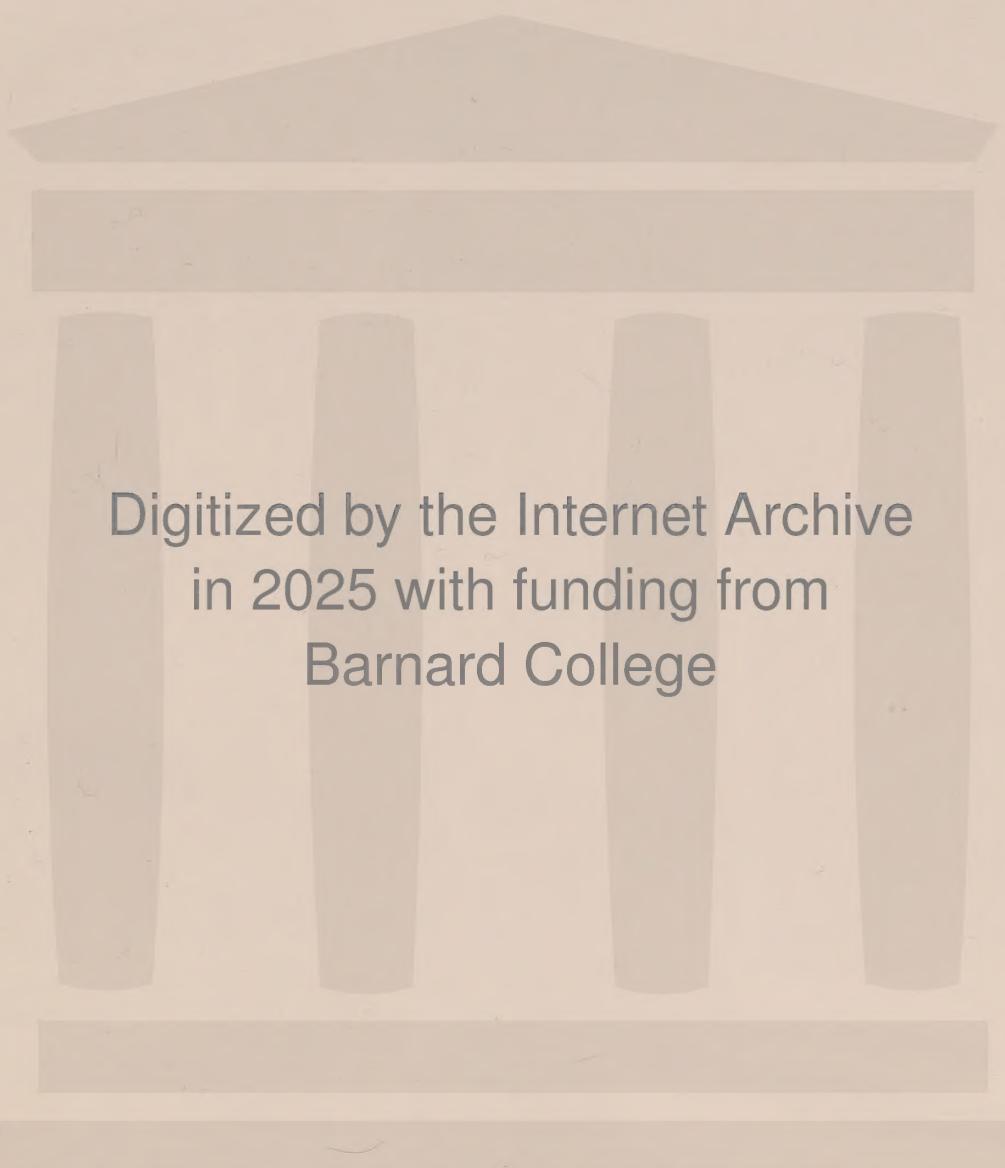
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MILBANK HALL

BARNARD COLLEGE  
THE UNDERGRADUATE COLLEGE  
OF LIBERAL ARTS  
FOR WOMEN  
OF  
Columbia University

1955-1956

MORNINGSIDE HEIGHTS  
NEW YORK 27, N. Y.

BARNARD COLLEGE  
ARCHIVES

## COMMUNICATION WITH THE COLLEGE

Students and prospective students should read carefully the pertinent sections of this Announcement before writing or requesting applications as indicated below.

The post office address is Barnard College, Columbia University, New York 27, N. Y. The telephone number is University 5-4000.

Inquiries should be addressed as follows:

General matters pertaining to the College: the General Secretary  
Admission to the freshman class or with advanced standing, information about scholarships for entering students and requests for catalogues: the Director of Admissions

Scholarships and loan funds for students in college: the General Secretary

Academic work of students: the Class Advisers

Payment of College bills: the Bursar

Requests for transcripts and notices of withdrawal: the Registrar

Health: the College Physician

Opportunities for self-help, recommendations for employment:  
the Placement Office

Gifts or bequests: the Director of the Barnard Fund

Alumnae: the Executive Secretary of the Associate Alumnae

Public Relations: the Director of Public Relations

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**B**ARNARD is the undergraduate liberal arts college for women of Columbia University. Since its founding in 1889, it has aimed to offer young women an education of high standard. Through giving wide opportunities for serious study, it has opened to its students the delights of learning and the training prerequisite for the professions.

Because of Barnard's relationship to Columbia, our curriculum is extensive in its scope as well as demanding in its approach to study. Whatever its students desire to learn may be found in the opportunities offered by our faculty and by a great University; whatever fruits of learning they wish to taste — whether in the arts or in the business of the community — they may discover in New York City, of which Barnard is proud to be a part. In addition, they will find a well-rounded, mature program of college activities part of which is shared with Columbia College.

Underlying our curriculum and our daily round of activity is the conviction that a college education is a high privilege; that those who have great opportunity have the responsibility to use it to the full. For learning alone is not enough; it must be used with wisdom to make living creative and effective. We welcome students who share this conviction; who wish to learn so that they may take their full part in our complex and exciting world.

*Millicent C. McIntosh*

# I. Organization

TRUSTEES OF BARNARD COLLEGE

1955-1956

MRS. OGDEN REID, *Chairman*

FRANCIS T. P. PLIMPTON, *Vice-Chairman*

FREDERIC RHINELANDER KING, *Clerk*

MRS. FRANK ALTSCHUL

LINDSAY BRADFORD

MRS. LEIGHTON COLEMAN

MRS. LEONARD W. CRONKHITE

FRANK D. FACKENTHAL

HARRY EMERSON FOSDICK, D.D.

MRS. ALFRED F. HESS

ANDERSON F. HEWITT

ROBERT L. HOGUET, JR.

ROBERT S. HUTCHINS

PRESIDENT GRAYSON KIRK, *ex officio*

MRS. RUSTIN MCINTOSH

MRS. GAVIN MACBAIN

SAMUEL R. MILBANK

RICHARD RODGERS

CHARLES E. SALTZMAN

EARL B. SCHWULST

MRS. ARTHUR HAYS SULZBERGER

MRS. MAYNARD WHEELER

MRS. WILLIAM T. GOSSETT (*Alumnae Trustee*)

MRS. WALTER M. WEST (*Alumnae Trustee*)

MRS. WILLIAM P. WHITE (*Alumnae Trustee*)

MRS. FREDERICK WOODBRIDGE (*Alumnae Trustee*)

# STANDING COMMITTEES OF THE TRUSTEES FOR 1955-56

## EXECUTIVE COMMITTEE

Mrs. Reid, *Chairman*, *ex officio*, Mr. Plimpton, *Vice-Chairman*, *ex officio*, Mr. King, Clerk, *ex officio*, Mr. Milbank, Chairman of Finance Committee, *ex officio*, Mrs. Altschul, Mrs. Coleman, Mr. Hewitt, Mrs. MacBain, Mrs. Wheeler, and the President of the University and the President of the College, *ex officiis*

## COMMITTEE ON FINANCE

Mr. Milbank, *Chairman*, Mrs. Altschul, Mrs. MacBain, Mr. Plimpton, Mr. Saltzman, Mr. Schwulst, and the President of the College and the Chairman of the Board of Trustees, *ex officiis*

## COMMITTEE ON BUILDINGS AND GROUNDS

Mrs. Altschul, *Chairman*, Mr. King, Mrs. Wheeler, Mrs. White, Mrs. Woodbridge, and the President of the College and the Chairman of the Board of Trustees, *ex officiis*

## COMMITTEE ON EDUCATION

Mrs. Cronkhite, *Chairman*, Mr. Fackenthal, Dr. Fosdick, Mr. Rodgers, Mrs. Sulzberger, and the President of the College and the Chairman of the Board of Trustees, *ex officiis*

## COMMITTEE ON NOMINATIONS

Mrs. Coleman, *Chairman*, Mrs. Hess, Mr. Milbank, Mrs. Woodbridge, and the President of the College and the Chairman of the Board of Trustees, *ex officiis*

## COMMITTEE ON INVESTMENTS

Mr. Bradford, *Chairman*, Mr. Plimpton, Mr. Saltzman, Mr. Schwulst, and the President of the College, the Chairman of the Board of Trustees, and the Chairman of the Finance Committee, *ex officiis*

## COMMITTEE ON DEVELOPMENT

Mrs. MacBain, *Chairman*, Mrs. Gossett, Mr. Hewitt, Mr. King, Mrs. White, and the President of the College and the Chairman of the Board of Trustees, *ex officiis*

## THE FACULTY

<b>GRAYSON KIRK, Ph.D., LL.D.</b>	President of the University
<b>MILLICENT CAREY MCINTOSH, Ph.D., LL.D., Litt.D., L.H.D.</b>	President of Barnard College and Dean in the University
<b>THOMAS P. PEARDON, Ph.D.</b>	Dean of the Faculty and Professor of Government
<b>HELEN PHELPS BAILEY, Ph.D.</b>	Dean of Studies and Associate Professor of French
<b><sup>1</sup>DOUGLAS MOORE, A.B., Mus. B.</b>	MacDowell Professor of Music
<b>W. CABELL GREET, Ph.D.</b>	McIntosh Professor of English
<b>MARION LAWRENCE, Ph.D.</b>	Professor of Fine Arts
<b><sup>1</sup>HENRY A. BOORSE, Ph.D.</b>	Professor of Physics
<b><sup>1</sup>MARION STRENG, A.M.</b>	Associate Professor of Physical Education
<b>JOHN DAY, Ph.D.</b>	Associate Professor of Greek and Latin
<b><sup>2</sup>RAYMOND J. SAULNIER, Ph.D.</b>	Professor of Economics
<b>RICHARD PARDEE YOUTZ, Ph.D.</b>	Professor of Psychology
<b>HENRY S. SHARP, Ph.D.</b>	Professor of Geology
<b>EDGAR R. LORCH, Ph.D.</b>	Professor of Mathematics
<b>VIRGINIA D. HARRINGTON, Ph.D.</b>	Associate Professor of History
<b>MARGARET HOLLAND, A.M.</b>	Associate Professor of Physical Education
<b>AMELIA A. DE DEL RÍO, A.M.</b>	Associate Professor of Spanish
<b>HELEN R. DOWNES, Ph.D. (Cantab.)</b>	Professor of Chemistry
<b>JOHN A. MOORE, Ph.D.</b>	Professor of Zoology
<b>OTTO LUENING</b>	Professor of Music on the Joline Foundation
<b>JULIUS S. HELD, Ph.D.</b>	Professor of Fine Arts
<b>MIRRA KOMAROVSKY, Ph.D.</b>	Professor of Sociology
<b>LORNA F. MCGUIRE, Ph.D.</b>	Associate Professor of English
<b>RENÉ ALBRECHT-CARRIÉ, Ph.D.</b>	Professor of History
<b><sup>2</sup>AUBREY GORBMAN, Ph.D.</b>	Professor of Zoology
<b>EDWARD J. KING, Ph.D.</b>	Associate Professor of Chemistry
<b>ANDRÉ MESNARD, A.M.</b>	Associate Professor of French
<b>DAVID A. ROBERTSON, JR., Ph.D.</b>	Associate Professor of English
<b>EMMA DIETZ STECHER, Ph.D.</b>	Associate Professor of Chemistry
<b>BASIL RAUCH, Ph.D.</b>	Professor of History
<b>INGRITH J. DEYRUP, Ph.D.</b>	Associate Professor of Zoology
<b>JOHN A. KOUWENHOVEN, Ph.D.</b>	Professor of English
<b>CLARA ELIOT, Ph.D.</b>	Assistant Professor of Economics

<sup>1</sup>Absent on leave, Spring Session.

<sup>2</sup>Absent on leave, 1955-56.

## BARNARD COLLEGE

ISABELLE DE WYZEWA, Ph.D.	Associate Professor of French
URSULA M. NIEBUHR, M.A. (Oxon.), S.T.M.	Associate Professor of Religion
CAROLYN P. LOUGHBOROUGH, A.M.	Associate Professor of Music
CHILTON WILLIAMSON, Ph.D.	Associate Professor of History
EUGENIO FLORIT, LL.D.	Associate Professor of Spanish
DONALD D. RITCHIE, Ph.D.	Associate Professor of Botany
LUCYLE HOOK, Ph.D.	Associate Professor of English
<sup>1</sup> GLADYS MEYER, Ph.D.	Assistant Professor of Sociology
<sup>1</sup> JOSEPH G. BRENNAN, Ph.D.	Associate Professor of Philosophy
FERN YATES, A.M.	Assistant Professor of Physical Education
ELEANOR M. TILTON, Ph.D.	Associate Professor of English
HELEN B. FUNK, Ph.D.	Assistant Professor of Botany
<sup>2</sup> JANE GASTON-MAHLER, Ph.D.	Associate Professor of Fine Arts
LELIA M. FINAN, A.M.	Assistant Professor of Physical Education
MARGARITA U. DA CAL, Ph.D.	Assistant Professor of Spanish
MARISTELLA DE PANIZZA BOVÉ, Litt.D.	Assistant Professor of Italian
MARION GILLIM, Ph.D.	Associate Professor of Economics
BERNARD BARBER, Ph.D.	Assistant Professor of Sociology
JOHN H. MUNDY, Ph.D.	Assistant Professor of History
PHOEBE MORRISON, Ph.D., J.S.D.	Associate Professor of Government
FREDERICA P. BARACH, A.B.	Assistant Professor of English
LE ROY BREUNIG, Ph.D.	Associate Professor of French
<sup>1</sup> MARIANNA BYRAM, A.M.	Assistant Professor of Fine Arts
EDWARD S. HODGSON, Ph.D.	Assistant Professor of Zoology
ELEANOR ROSENBERG, Ph.D.	Assistant Professor of English
LOUISE G. STABENAU, A.M.	Assistant Professor of German
SIDNEY A. BURRELL, Ph.D.	Assistant Professor of History
JOHN B. STEWART, Ph.D.	Assistant Professor of Government
HEINZ SELTMANN, Ph.D.	Assistant Professor of Botany
JEAN A. POTTER, Ph.D.	Assistant Professor of Philosophy
ROSALIE COLIE, Ph.D.	Assistant Professor of English
ROBERT LEKACHMAN, Ph.D.	Assistant Professor of Economics
JEANNE V. PLEASANTS, D. d'Univ.	Associate Professor of French
NORRIS HOUGHTON, A.B.	Director of the Minor Latham Drama Workshop and Adjunct Professor of English

<sup>1</sup> Absent on leave, Spring Session.

<sup>2</sup> Absent on leave, 1955-56.

## THE FACULTY

H. STANDISH THAYER, Ph.D.	Assistant Professor of Philosophy
LEONARD ZOBLER, Ph.D.	Assistant Professor of Geography
RENÉE J. KOHN, Agrégée de l'Université	Assistant Professor of French
ALBERT G. PRODELL, Ph.D.	Assistant Professor of Physics
HERBERT HYMAN, Ph.D.	Associate Professor of Sociology
JOHN IMBRIE, Ph.D.	Associate Professor of Geology
EDITH PORADA, Ph.D.	Visiting Assistant Professor of Fine Arts
HELEN TRAGER, A.M.	Assistant Professor of Education
TRACY S. KENDLER, Ph.D.	Assistant Professor of Psychology
ROSEMARY PIERREL, Ph.D.	Assistant Professor of Psychology
ALICE S. WILSON, Ph.D.	Visiting Assistant Professor of Classics
JEAN T. PALMER, A.B.	General Secretary of the College
MARJORY J. NELSON, M.D.	College Physician
ESTHER GREENE, A.B., B.S.	Librarian
SARAH KATHERINE THOMSON, M.S.	Reference Librarian
FORREST L. ABBOTT, Ed.D.	Treasurer and Controller
MARGARET GIDDINGS, A.B.	Secretary to the Faculty

## OFFICERS EMERITI

VIRGINIA C. GILDERSLEEVE, Ph.D., LL.D., Litt.D., L.H.D.	Dean Emeritus
IDA H. OGILVIE, Ph.D.	Professor Emeritus of Geology
WILLIAM T. BREWSTER, A.M., Litt.D.	Professor Emeritus of English
HENRY E. CRAMPTON, Ph.D., Sc.D.	Professor Emeritus of Zoology
GERTRUDE M. HIRST, Ph.D., M.A. (Cantab.)	Professor Emeritus of Greek and Latin
MARIE REIMER, Ph.D.	Professor Emeritus of Chemistry
HARRY L. HOLLINGWORTH, Ph.D., LL.D.	Professor Emeritus of Psychology
MARGUERITE MESPOULET, Agrégée de l'Université	Professor Emeritus of French
GEORGE W. MULLINS, Ph.D.	Professor Emeritus of Mathematics
MINOR W. LATHAM, Ph.D.	Professor Emeritus of English
WILLIAM HALLER, Ph.D., L.H.D.	Professor Emeritus of English
FLORENCE DE LOISELLE LOWTHER, Ph.D.	Professor Emeritus of Zoology
HELEN H. PARKHURST, Ph.D.	Professor Emeritus of Philosophy
ELIZABETH FAULKNER BAKER, Ph.D.	Professor Emeritus of Economics
HUGH WILEY PUCKETT, Ph.D.	Professor Emeritus of German
FREDERIC G. HOFFHERR, B. ès L.	Professor Emeritus of French

# BARNARD COLLEGE

## OTHER OFFICERS OF INSTRUCTION

PAMELA ALEXANDER, A.B.	Assistant in Zoology
LUCILLE HOLLJES ALTSCHUL, Ph.D.	Instructor in Chemistry
AUDREY H. APPEL, A.B.	Assistant in Chemistry
ROSEMARY ARNOLD, A.B.	Instructor in Economics
DONNA BARRAND, M.S.	Instructor in Physical Education
ANNETTE K. BAXTER, A.M.	Lecturer in American Civilization
MICHAEL H. BELSHAW, A.B.	Lecturer in Economics
S. PALMER BOVIE, Ph.D.	Associate in English
RICHARD E. BROTMAN, A.M.	Visiting Lecturer in Sociology
S. RUTH BROWN, A.B.	Assistant in Psychology
LINETTE W. BRUGMANS, A.M.	Instructor in French
HELEN M. CARLSON, A.M.	Associate in French
DONALD COOK, A.M.	Instructor in Psychology
LAWRENCE J. CROCKETT, A.M.	Assistant in Botany
WILLIAM W. CUMMING, Ph.D.	Instructor in Psychology
ELIZABETH CZONICZER, Ph.D.	Lecturer in Italian
CLAIRE DELAGE, A.B.	Assistant in Physics
DOUGLAS DICKSON, A.M.	Instructor in Mathematics
ARNETT ELLIOTT, A.B.	Lecturer in Government
ALBA-MARIE FAZIA, Ph.D.	Instructor in French
RENÉE CLAIRE FOX, Ph.D.	Lecturer in Sociology
<sup>1</sup> LAURA GARCÍA-LORCA, L.F.L.	Instructor in Spanish
<sup>1</sup> ROSAMOND GILDER	Associate in English
ALEXANDER GODE, Ph.D.	Lecturer in German
TATIANA GREENE, A.M.	Instructor in French
MARTIN H. HACK, A.M.	Assistant in Psychology
ILENE HAERING, A.B.	Assistant in Fine Arts
JOSEPH A. HEARST, A.M.	Lecturer in Government
ANTOINETTE N. HOFFHERR, A.M.	Lecturer in French
JANE LANCASTER, A.M.	Assistant in Geology
ELIZABETH McCausland, A.M.	Lecturer in Fine Arts
FRANCES K. MARLATT, A.M., J.D.	Associate in English
LENORE F. MEADOWS, A.M.	Instructor in Chemistry
<sup>2</sup> ALICE LEVINE MITCHELL, A.M.	Instructor in Music
INEZ NELBACH, A.M.	Instructor in English
PETER NIELSEN, A.B.	Assistant in Botany

<sup>1</sup> Absent on leave, 1955-56.

<sup>2</sup> Absent on leave, Winter Session.

## THE FACULTY

RICHARD NORMAN, A.M.	Lecturer in English
REMINGTON PATTERSON, A.M.	Instructor in English
MARIAN W. PHILIPS, A.M.	Instructor in Physical Education
GEORGE PLIMPTON, A.B.	Associate in English
FRANK RINALDI, A.M.	Assistant in Drama
RUTH A. ROOSA, A.M.	Lecturer in Russian Studies
GERTRUD SAKRAWA, Ph.D.	Instructor in German
JEANETTE SCHLOTTMANN, A.M.	Instructor in Physical Education
HELEN SHERRILL, A.M.	Lecturer in Human Relations
JOYCE SIEGAN, A.M.	Lecturer in Philosophy
MARGARET STREHAN, A.B.	Assistant in Child and Adolescent Psychology
ADOLPHUS J. SWEET, A.M.	Assistant Director of the Minor Latham Drama Workshop and Instructor in English
MOLLY TEASDALE, A.B.	Studio Assistant in Fine Arts
HOWARD TEICHMAN, A.B.	Lecturer in English
BARRY ULANOV, Ph.D.	Instructor in English
MILDRED DUNNOCK URMY, A.B., M.S.	Associate in English
NANCY E. WEBER, A.B.	Assistant in Zoology
DORA B. WEINER, Ph.D.	Instructor in History
JANE WEISS, A.B.	Assistant in Psychology
ROBERT C. WOEMPER, A.M.	Lecturer in Spanish
NATHALIE S. WOODBURY, A.B.	Lecturer in Anthropology
MARILYN WURTZEL, B.S.	Assistant in Chemistry

## OFFICERS OF ADMINISTRATION

MILLICENT CAREY MCINTOSH, Ph.D., LL.D., Litt.D., L.H.D.	President of Barnard College and Dean in the University
THOMAS P. PEARDON, Ph.D.	Dean of the Faculty and Professor of Government
HELEN PHELPS BAILEY, Ph.D.	Dean of Studies and Associate Professor of French and Adviser to the Class of 1956
HELEN M. CARLSON, A.M.	Adviser to the Class of 1957 and Associate in French
LUCILLE HOLLJES ALTSCHUL, Ph.D.	Adviser to the Class of 1958 and Instructor in Chemistry
CLARA ELIOT, Ph.D.	Adviser to the Class of 1959 and Assistant Professor of Economics
JEAN T. PALMER, A.B.	General Secretary of the College
FORREST L. ABBOTT, Ed.D.	Treasurer and Controller

## BARNARD COLLEGE

HELEN M. McCANN, A.B.	Director of Admissions
MARGARET DYKES DAYTON, A.M.	Associate Director of Admissions
MARY A. BLISS, A.B.	Executive Secretary, Associate Alumnae
EMILY G. LAMBERT, A.B.	Bursar
FRANCES A. BARRY, M.S.	Assistant Bursar
HELEN LAW, A.B.	Executive Secretary, Office of the President
MARY ALICE CURRIER, B.S.	Director of Food Services
FLORENCE M. BRECHT, A.B.	Director of the Barnard Fund
ESTHER GREENE, A.B., B.S.	Librarian
THUSNELDA BRETTMAN	Assistant Librarian
SARAH KATHERINE THOMSON, M.S.	Reference Librarian
MARJORY J. NELSON, M.D.	College Physician
A. LOUISE BRUSH, M.D.	Consulting Psychiatrist
RUTH HOUGHTON, A.B.	Director of Placement Office
ETHEL C. BURGESS, A.B.	Assistant Director of Placement Office
PHYLLIS D. MICHELFELDER, A.B.	Director of Public Relations
MARGARET GIDDINGS, A.B.	Registrar and Secretary to the Faculty
DOROTHY E. FOX, A.B.	Associate Registrar and Adviser to Foreign Students
KAY S. DUBOSE, A.B.	Assistant Registrar
HARRIET BENSEN	Director of Residence Halls
MARY STEWART, A.M.	Assistant Director of Residence Halls and Adviser for Religious Affairs
CATHERINE R. GOODWIN, B.S.	Director of College Activities
JOHN KIELSLING	Manager of Maintenance and Operations
JOHN M. KRUMM, Ph.D., B.D.	Chaplain of the University
CARL R. WISE, M.D.	University Medical Officer

## STANDING COMMITTEES OF THE FACULTY

### Elective Committees

#### ADVISORY COMMITTEE TO THE PRESIDENT

The President, *Chairman*, *ex officio*, Miss Downes, Mr. Held, Miss Komarovsky, Mr. Kouwenhoven, Mr. Youtz, and Mr. Peardon, *ex officio*

#### COMMITTEE ON INSTRUCTION

Mr. Peardon, *Chairman*, Mr. Breunig, Miss Deyrup, Mr. Lekachman, Miss Morrison, Mr. Ritchie, Mr. Robertson, Mr. Youtz, and *ex officiis*, the President, Mrs. Bailey, Miss Giddings

#### COMMITTEE ON PROGRAMS AND STANDING

Mrs. Bailey, *Chairman*, Miss Gillim, Miss Hook, Mr. Moore, and *ex officiis*, Mrs. Altschul, Miss Carlson, Miss Eliot, Miss Fox, Miss Giddings, Miss McCann, Mr. Peardon

### Appointive Committees

#### COMMITTEE ON ADMISSIONS

Miss McCann, *Chairman*, Mrs. Altschul, Miss Colie, Miss Gillim, and *ex officiis*, Mrs. Bailey, Mrs. Dayton, Miss Palmer

#### COMMITTEE ON THE FOREIGN LANGUAGE REQUIREMENT

Miss Tilton, *Chairman*, Mrs. Bové, Mr. Breunig, Mr. Day, <sup>1</sup>Mrs. García-Lorca, Mr. King, Mrs. Stabenau, and *ex officiis*, Mrs. Bailey, Mr. Peardon

#### COMMITTEE ON HONORS

Mr. Peardon, *Chairman*, *ex officio*, <sup>2</sup>Miss Byram, Mr. King, Miss Komarovsky, Miss Rosenberg

#### COMMITTEE ON THE LIBRARY

Mr. Peardon, *Chairman*, Miss Gillim, Mr. Greet, Mr. Moore

#### COMMITTEE ON SCHOLARSHIPS

Miss Palmer, *Chairman*, Mr. Burrell, <sup>2</sup>Miss Meyer, Miss Nelbach, and *ex officiis*, Miss Bensen, Miss Goodwin, Miss McCann, the Class Advisers

<sup>1</sup>Absent on leave, 1955-56.

<sup>2</sup>Absent on leave, Spring Session.

## BARNARD COLLEGE

### COMMITTEE ON SPACE AND HOURS

Mr. Peardon, *Chairman*, Mr. Carrié, Miss Lawrence, Mr. Lorch, Mr. Sharp, Mr. Youtz, and *ex officiis*, Mr. Abbott, Mrs. Bailey, Miss Giddings

### COMMITTEE ON STUDENT AFFAIRS

The President, *Chairman, ex officio*, Miss Finan, Miss Harrington, Miss Morrison, and *ex officiis*, Miss Bensen, Miss Goodwin, Mrs. Michelfelder, Miss Palmer, the Class Advisers

### BARNARD REPRESENTATIVES ON THE UNIVERSITY COUNCIL

The President, *ex officio*, Mr. Kouwenhoven (serving until June 1956), and Mr. Boorse (serving until June 1957)

## II. An Introduction to the College

Barnard College, located on a four-acre campus on Morningside Heights adjoining the Columbia University campus, offers its 1200 students the many advantages of a cosmopolitan university community, while preserving its identity as a woman's undergraduate college. Though a part of the University, Barnard retains its own internal administration, and the College's governing body is its own trustees, president and faculty.

The Barnard graduate receives her degree of Bachelor of Arts from Columbia University, as does the graduate of Columbia College, the men's undergraduate division of the University. Many of the facilities of the University are open to the Barnard student, and she shares with the men undergraduates such advantages of participation in a large university as the use of Columbia's great libraries and the opportunity to study with world-famous scholars.

### BARNARD'S BEGINNING

Many colleges begin with something tangible; a gift of buildings, a tract of land or an endowment. Barnard College began with nothing except the idea of equal education for women.

The man who did most to make this idea become a reality was President Frederick A. P. Barnard of Columbia. As early as 1879, President Barnard had started a vigorous campaign for the admission of women to Columbia College, but his trustees had doubted "whether the female brain could stand the strain of a rigorous college course". However, after years of work and the assistance of women of New York who became a "persistent set of agitators", a resolution was finally passed by the Columbia Board of Trustees on April 1, 1889, establishing a separate college for women.

That fall classes were begun in a rented brownstone house at 343 Madison Avenue, with seven Columbia instructors and a student body composed of fourteen regular students and twenty-two special students. The new college promised an education exactly equal to that offered to the men at Columbia. This meant that Barnard girls took the same entrance examinations as the Columbia students, an important circumstance in establishing Barnard's high academic standards.

By 1898, Barnard had moved to its present site on Morningside Heights, three buildings had been constructed, and the College had

## BARNARD COLLEGE

grown to 500 students. In 1900, it was formally incorporated into the educational system of Columbia University.

Since 1900 additional land and buildings have been acquired by Barnard until now the College occupies the entire area between 116th and 120th Streets bounded by Broadway and Claremont Avenue, one block east of Riverside Park and the Hudson River. Currently the College owns equipment, buildings and grounds with a book value of \$5,500,000 and holds endowment funds providing a net income of \$397,000.

### BARNARD COLLEGE TODAY

Barnard College today provides a curriculum of undergraduate study in the liberal arts which is designed to give the student both a knowledge of the past, and the trained mind and sound ideals which will best enable her to take her place in the modern world.

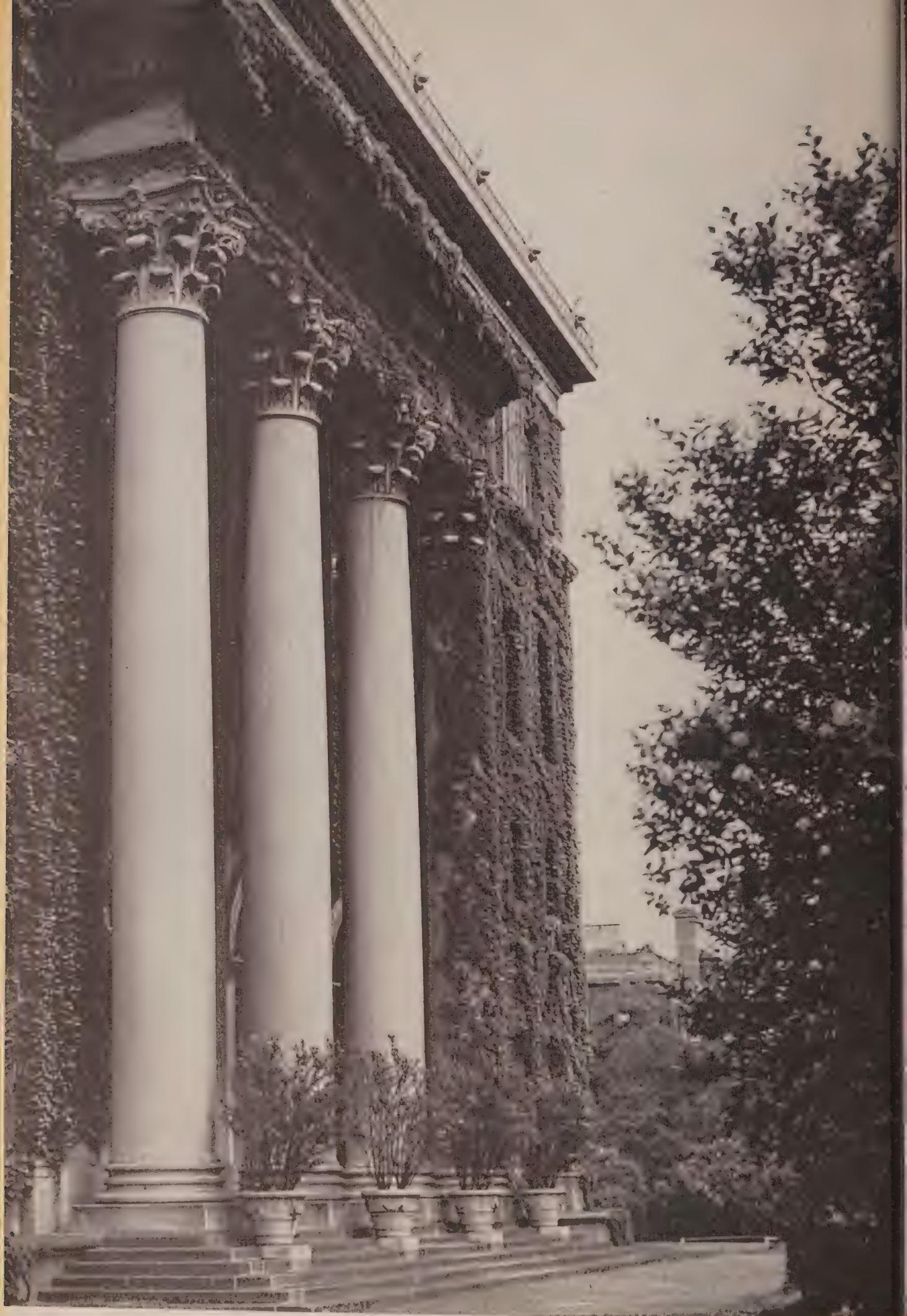
The Barnard curriculum prepares the student for the most difficult requirements of graduate and professional school, and a large number of Barnard girls (thirty-five per cent in 1954) go on to advanced work. However, the basic aim of the College's program is to train a free mind:—the ability to use the tools of learning, to weigh facts responsibly, and to bring knowledge creatively to bear on new situations. Whether the Barnard girl goes on to professional school or career, or devotes herself to home and community, her training in the liberal arts is designed to insure that she will lead a rich, useful, and interesting life.

In order to provide a broad foundation for understanding the world in which she lives, as well as to enable her to discover her own intellectual aptitudes and interests, the student is required to take a wide distribution of courses in the various fields of human knowledge. Through two full-year courses in the humanities she makes direct acquaintance with literature, and philosophy, religion, music or the fine arts. She must also have a year's work in history and one in some phase of contemporary society, such as anthropology, economics, government, psychology, or sociology, and she must have training in the methods of both the physical and biological sciences. A required freshman course aims to give the student an opportunity to consider the relationship of the individual to society. A student must also demonstrate before graduation a reading ability in at least one foreign language, as well as the ability to speak and write English with clarity and understanding.

In addition to fulfilling these requirements, a student will by concentrating in a major field of study in her last two years gain a



ALMA MATER—COLUMBIA UNIVERSITY



BARNARD HALL



MUSIC MAJORS USE RECORD COLLECTION IN ELLA WEED LIBRARY

MAIN READING ROOM, ELLA WEED LIBRARY



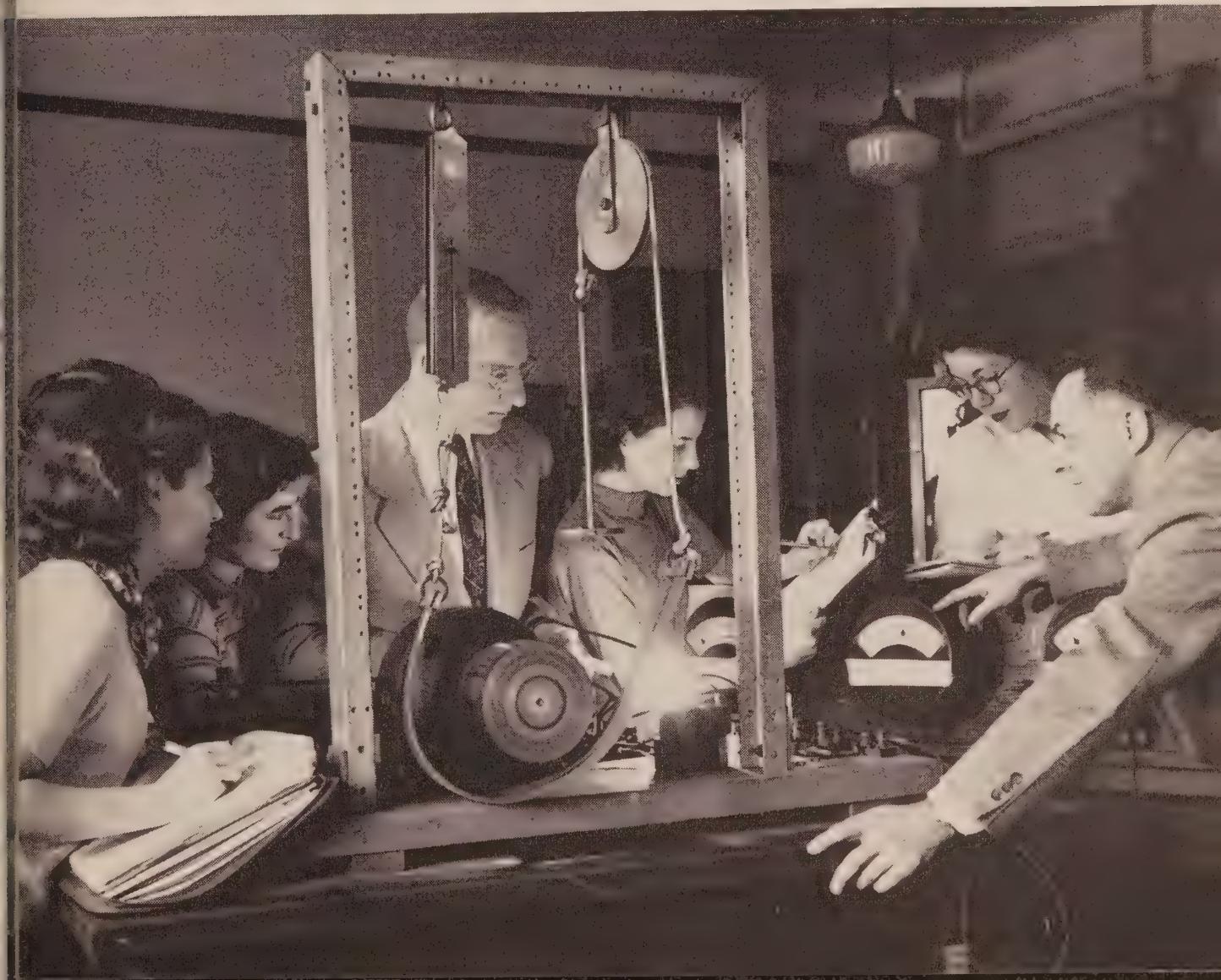


A BARNARD ANTHROPOLOGY MAJOR



A BARNARD-COLUMBIA ADVANCED MATHEMATICS CLASS

BARNARD FACULTY MEMBERS DIRECT PHYSICS EXPERIMENT





FINE ARTS CLASS AT METROPOLITAN MUSEUM OF ART



MINOR LATHAM DRAMA WORKSHOP



ST. PAUL'S CHAPEL ON COLUMBIA CAMPUS

BARNARD SENIORS MARCH IN COLUMBIA COMMENCEMENT PROCESSION



## *AN INTRODUCTION TO THE COLLEGE*

thorough knowledge of one subject through advanced courses, seminars, independent study and research. Students have a wide range in choosing their major subject, with twenty-two departments of study in the humanities, the social sciences, and the physical and biological sciences. There are also interdepartmental majors such as American Civilization and Foreign Areas Studies, and special programs in Education and Drama.

Barnard's classes are instructed by a faculty and teaching staff of about 160. The faculty includes scholars who are devoting their lives to teaching and research both at Barnard and in the graduate faculties of Columbia University. Others come to Barnard several times each week from the world of the theater, the arts, and business, bringing with them special experience and ability in their various fields and first-hand knowledge of the problems that future graduates will encounter.

A number of undergraduate classes are held with Columbia College, and the music, religion, physics, mathematics and classics departments are joint Barnard-Columbia departments. Courses in the Graduate Faculties of Political Science, Philosophy and Pure Science are also open to qualified students with the consent of the executive officer of the department concerned and the class adviser.

The resources of New York City—its museums, its cultural activities, its opportunities for field work in such areas as economics, government, sociology, sciences—are constantly drawn upon. The Morningside Heights community in itself, with its university faculties, its schools and churches, its varied racial and social groups, presents an unusual bridge between learning and living.

### **THE CAMPUS**

Barnard's campus is a compact area of buildings and landscaped grounds lying just west of the Columbia campus. It is surrounded by such other institutions as Riverside Church, the Union Theological Seminary, the Juilliard School of Music, International House, Jewish Theological Seminary, St. Luke's Hospital, and the Cathedral of St. John the Divine.

Milbank Hall houses offices, classrooms, laboratories and a greenhouse, as well as the new model Minor Latham Drama Workshop. In Barnard Hall are the Ella Weed Library, literature seminar rooms, the art studio, gymnasium, swimming pool and dance studio, the Student Annex, and a student social center known as the James Room.

## BARNARD COLLEGE

Between Milbank and Barnard Halls are the tennis courts, lawns, and the "Jungle", an area of trees and flowering shrubs. Brooks and Hewitt Halls, the two residence halls, are located south of Barnard Hall, on two sides of a grassy court.

### RESIDENCE

The student body of nearly 1200 is composed of both resident and non-resident students. Barnard has residence space available for only one-third of the student body, but the 400 girls who live in the residence halls are from nearly every State and 30 foreign countries.

In order to maintain this cosmopolitan student body, an overall housing policy makes residence space available to students from different parts of the world. It is impossible therefore to assign rooms to those who are able to commute (see page 154).

The combination of day students and residents gives a special character to Barnard life. The students live in unusually close contact with the great city beyond the gates, while special facilities are provided in the James Room and the Student Annex so that the non-resident student may participate fully in the extra-curricular activities on campus. The dining room in the residence halls is available to non-resident students and to faculty for meals during the noon hour.

### STUDENT LIFE

Barnard has a broad program of extra-curricular activities, and wide responsibilities in the college community are given to the students. All student activities and organizations at the College are under the general supervision of the Undergraduate Association. Every student is a member of the Association and is eligible on payment of the student activities fee to take part in all undergraduate and class functions, to use all the privileges of the Athletic Association, and to receive the semi-weekly undergraduate newspaper, the literary magazine and yearbook.

The Honor Board, whose chairman is a member of the Student Council of the Undergraduate Association, administers the Honor Code, an important part of life at Barnard, under which all entering students agree to maintain a high standard of honor in examinations and in all phases of college life.

There are numerous clubs and organizations on the campus, including language clubs, the dramatic society, Political Council, the International Relations Club, Chess Club, and others. A committee of students from Columbia College and Barnard plan the social program of the two colleges jointly, and there is close liaison between

## *AN INTRODUCTION TO THE COLLEGE*

such extra-curricular activities as the dramatic groups of both colleges, the Gilbert and Sullivan Society, the Columbia radio station, WKCR, the Columbia Glee Club, the Orchestra and Chamber Music Society.

In addition to these student activities, the Undergraduate Association aids in college planning through participation on such faculty and administration committees as the Development Council and the Assemblies Committee. An undergraduate Curriculum Committee consults with the corresponding faculty committee, and from time to time makes recommendations.

### **RELIGIOUS LIFE**

The Department of Religion at Barnard offers jointly with Columbia a comprehensive program of courses, which deal with all the important religious traditions. At the Thursday Noon Meeting, sponsored by a Faculty-Student Committee on Religious Affairs, Barnard faculty members as well as outside speakers discuss contemporary religious and philosophical issues.

In St. Paul's Chapel on the Columbia campus, services are conducted daily. Students are invited also to participate in the services at local churches and synagogues. An active extra-curricular program is directed by counsellors representing the various faiths, and is implemented through religious clubs. These clubs have their quarters in Earl Hall on the Columbia campus and are open to both Columbia College and Barnard students.

### **HEALTH AND RECREATION**

There are on the campus tennis courts, golf cages, and an archery range in addition to the gymnasium, swimming pool, and dance studio. The Barnard College Camp occupies a 20-acre plot of wooded land near Ossining, New York, an hour's journey north of the city, and furnishes an ideal opportunity for outdoor recreation.

Barnard has on its staff a full-time physician, who is in charge of all matters affecting the health of students, a part-time psychiatrist, and two nurses. Medical examinations are required for freshmen, sophomores, and seniors.

Resident students and non-resident students not living with family or relatives are required to participate in the Columbia University Student Medical Plan (see page 126). It is recommended, though not required, that non-resident students living at home participate in this plan. It provides, without charge, bed care for ten days a semester

## BARNARD COLLEGE

in the Columbia University Infirmary. For acute surgical and medical conditions requiring hospitalization, four days' ward care at St. Luke's Hospital is also available each semester. Under the CUSMP the Barnard physician refers students to the Columbia University Medical Office for consultation with specialists and for treatment for minor surgical conditions.

Barnard students may join the Associated Hospital-United Medical Service plan for surgical and medical expense indemnity (see page 129).

### THE PLACEMENT OFFICE

The Placement Office, which is maintained by the College for the benefit of students and alumnae, offers assistance in planning for and obtaining full and part-time positions. Through personal interviews, vocational tests, and an analysis of interests and experience, its staff helps to guide students and alumnae into occupations that utilize their capabilities to the fullest extent.

The office keeps in close touch with the needs of employers through the hundreds of jobs referred to the College, through professional contacts of faculty and alumnae, and visits to business, government and other professional fields made by members of the placement staff. In cooperation with the Advisory Vocational Committee of the Associate Alumnae and a student-faculty committee a program of vocational conferences and meetings is offered on the campus, giving students an opportunity to discuss specific fields of work with experts employed in their fields.

The Placement Office obtains jobs for undergraduates both on the Barnard campus and off the campus. Typical jobs include babysitting, selling in department stores, typing, and stenographic work. It is not advisable for a student to undertake employment during her freshman year, since it is difficult for her to estimate at first the amount of time that can safely be spared from academic work. After the first year, a student with good health and sound academic standing should be able to carry part-time jobs amounting to not more than ten or twelve hours per week. Student earnings during the college year average \$150.

Various kinds of summer jobs may be obtained through the Placement Office. Approximately sixty-five per cent of the Barnard students hold summer jobs and their earnings average about \$350.

Both students and alumnae are welcome to use the services of the Placement Office for information, advice, and placement at any time during the year.

### III. Admission

The Committee on Admissions selects for Barnard those candidates who show evidence of intellectual ability, sound character, and good health. Along with the past record of academic achievement, promise of good citizenship is important. In addition, the College believes it desirable that the college experience be shared by students representing a wide variety of schools, many parts of the United States, and many foreign countries.

Candidates wishing to talk over their plans may arrange with the Office of Admissions for an interview at the College in the fall of their senior year at secondary school or during their junior year, except during the period from April 1 to June 1. The Office of Admissions will also be glad to arrange for an interview with an alumna near a candidate's home, if she is unable to visit the College.

#### ADMISSION TO THE FRESHMAN CLASS

Application for admission to the freshman class should be made before February 15 of the year of entrance. It is more desirable, however, to apply by the end of the junior year in secondary school or the fall of the senior year. Application forms may be obtained by writing to the Director of Admissions. A non-refundable ten dollar fee must accompany each application.

Students are admitted to the freshman class in September of each academic year. They should be at least fifteen years of age. They must present the following credentials:

- 1) Evidence of good character, which is obtained from confidential reports from the applicant's secondary school principal and teachers and, if possible, through a personal interview with a member of the staff of the Office of Admissions.
- 2) Evidence of sound health, which should be submitted, as soon as the applicant has been accepted, on forms provided by the Office of Admissions.
- 3) Evidence of intellectual ability and achievement, which is reported by the secondary school to the College, and is also demonstrated by the required College Entrance Examination Board Tests.

Specifically, a candidate for admission should be a graduate of

## BARNARD COLLEGE

an approved secondary school or should have equivalent education representing a four-year course of study. Such a course should include four years of work in English, three years in one foreign language and two in another, a year in algebra and a year in geometry. The remainder of the course should consist of work in history, science, additional languages, mathematics, music, or art. For pre-medical students additional work in science, mathematics, and German is advised. Pre-engineering students should offer three years of social studies, two years of French or German, mathematics through solid geometry and trigonometry, physics, and chemistry.

The Committee on Admissions is willing to consider the applications of students whose preparation may vary from the usual pattern but whose records give evidence of genuine intellectual ability and interest.

Every candidate for admission to the freshman class is required to take the College Entrance Examination Board Scholastic Aptitude Test in January or March of her senior year in school and three Scholastic Achievement Tests in March of her senior year. The latter must be taken in (1) English Composition, (2) a foreign language, and (3) social studies, science, or mathematics. January graduates may take the College Board tests in December or January of their senior year.

### THE COLLEGE ENTRANCE EXAMINATION BOARD TESTS

The College Entrance Examination Board will administer the following five series of tests in 1955-56:

Saturday, December 3, 1955	Saturday, March 17, 1956
Saturday, January 14, 1956	Saturday, May 19, 1956
Wednesday, August 8, 1956	

Those required for admission to Barnard are:

Scholastic Aptitude Test (including a verbal and mathematical section) .....	8:45 a.m.
Three Achievement Tests (one hour each).....	1:45 p.m.

(1) English composition; (2) a choice of French, German, Greek, Italian, Latin or Spanish; (3) a choice of social studies, biology, chemistry, physics, intermediate mathematics, or advanced mathematics.

Candidates should write directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey, for the Bulletin of Informa-

## ADMISSION

tion containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for the filing of applications, and lists of examination centers. When requesting the application forms, candidates should state whether they wish to take the May, August, December, January or March tests.

Residents of California, Oregon, Washington, Idaho, Montana, Wyoming, Utah, Colorado, Nevada, Arizona, New Mexico, Alaska, Hawaii, Australia, Mexico, and the Pacific Islands should write to the Pacific Coast Office of the Board, P. O. Box 9896, Los Feliz Station, Los Angeles 27, California.

In order to facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, or Los Angeles, California, for candidates outside the United States, Alaska, Hawaii, the Canal Zone, Canada, Mexico, and the West Indies is seven weeks before the date of the examination; for all other candidates the closing date is three weeks before the date of the examination. A penalty fee of \$3 to accompany the application will be charged for applications received later than the normal closing date.

No applications received in Princeton or Los Angeles later than one week before the examination date will be considered. Candidates may not register for the tests at the examination centers. Each application should be accompanied by the appropriate examination fee:

Scholastic Aptitude Test alone.....	\$ 6.00
One, two, or three Achievement Tests.....	8.00
Scholastic Aptitude and one, two, or three Achievement Tests	12.00

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges will, in turn, notify the candidates of the action taken upon their applications for admission. Candidates will not receive reports of their tests from the Board.

## ADMISSION TO ADVANCED STANDING

Candidates are admitted to advanced standing in September and February. They should have satisfactorily completed at least one year of work at an acceptable college or foreign institution of equivalent grade. In general, a candidate with a good record, transferring to Barnard from an institution of equal standing, will receive at Barnard a year's credit for a year's work at the institution from which she enters.

The student should submit with her formal application the following credentials: her secondary school record and a recommendation from

## BARNARD COLLEGE

her principal; a complete and official transcript of her college work and a copy of the college catalogue in which the courses she has taken are clearly marked; the results of any College Entrance Examination Board tests she has taken. A candidate for admission from a junior college may be asked to take the College Entrance Examination Board Scholastic Aptitude Test if she has not already done so. No definite credit for her junior college work can be assigned until she has had an opportunity to establish a satisfactory record at Barnard.

In all cases, final action on admission depends upon the receipt of a statement of honorable dismissal, which is a certificate of good character from an authorized representative of her college, and the required health reports.

Application for admission to advanced standing should be submitted before July 1 for admission in September and before December 1 for admission in February. If all credentials are not in the hands of the Committee on Admissions by September 15, 1955, the student's registration may be postponed until Monday, October 3, 1955, thereby incurring an additional fee of \$15 for lateness.

### ADMISSION AS SPECIAL STUDENTS

Mature students who may wish to pursue serious study at an advanced level, without working for a degree, may in some cases be admitted for one year as non-matriculated students. They must submit evidence of good character and proof that they are qualified scholastically to take the courses of their choice. Students who wish to remain as special students for more than one year must receive permission to do so from the Committee on Instruction, and must maintain an academic standing of at least 2.00 (C).

Special students are governed by the same attendance, course examination, health, proficiency, and deficiency regulations as matriculated students. They are entitled to a formal statement testifying to the courses they have taken. If they satisfactorily complete thirty points of work, they may apply for transfer to a matriculated basis as candidates for a degree.

## IV. Degree Requirements

### ACADEMIC REQUIREMENTS FOR THE A.B. DEGREE

Requirements for the Bachelor of Arts degree serve as a framework for the acquisition of knowledge of the various fields of human thought, and have been planned to secure for the student a sound foundation in the liberal arts and sciences on which to base intensive work in the sphere of her special interest. The academic requirement is 120 points (a point is considered to be the equivalent of fifty minutes of class work a week and two hours of preparation). It includes the following:

- I. The introductory course in English, A1-A2, Reading, Writing and Speaking (6 points).
- II. The Individual and Society, a course designed to help each student determine her relationship to present-day society (3 points).
- III. Hygiene, unless excused on the basis of an exemption test (2 points).
- IV. Ability to read a foreign language at sight with ease. This requirement can be fulfilled in two ways, either by an examination, or by satisfactory completion of an advanced course in literature. The examination is held in December, May and September, and must be passed by the beginning of the senior year. If not, the student is placed on probation with a limited program until the requirement is satisfied. After all other requirements are met, four additional trials of the examination are permitted within the six-year time limit. (See *Credit*, page 23). The literature courses which are acceptable are marked § in the course descriptions. Six points must be taken and a minimum passing grade of C— must be obtained.
- V. One full-year course in a second foreign language, unless the student has had the equivalent (two years) in secondary school (6 to 8 points).
- VI. Two full-year courses in the humanities, one of which must be a 6-point course in literature studied in the language in which it was originally written. The other course may be in fine arts, literature, music, philosophy, or religion, or a combination of two one-semester courses in any of these departments. If an advanced literature course is taken for the foreign language requirement, it may count also toward the humanities requirement (12 points).

## BARNARD COLLEGE

- VII. One full-year course in American or European history, 1-2 or 3-4 (6 points).
- VIII. One full-year's study of contemporary society to be chosen from the following: Anthropology 8, 18; Economics 1-2 (both terms), 32; Geography 3, 4 and 15; Government 3-4 (both terms), 5-6 (both terms); Psychology 37; Religion 26; Sociology 1-2 (both terms). Except where both terms are indicated any combination of these courses may be made (6 points).
- IX. Two full-year courses in the natural sciences, one of which must include laboratory work. The sciences are divided into two groups: (a) biological—botany, experimental psychology, zoology, and (b) physical—chemistry, physical geography, geology, mathematics, physics. Both areas must be represented; if the laboratory science (8 points) is in group (a), the second science (6 points) should fall in group (b) (14 points).
- X. A major field to be selected before the end of the sophomore year, consisting of not less than 28 points of prescribed work and, if noted in the departmental statement, a major examination at the end of the senior year. A major may be chosen in any one field, or in such combinations as are indicated.
- XI. Electives. To be chosen with reference to the interests and objectives of the student (41 to 43 points).
- XII. Physical education, required for three years. Note: A failure in a physical education course taken at Barnard automatically places a student on probation (1) if the failing grade is not removed within one term, or (2) if at the beginning of her senior year, there is a failure in physical education on her record.

These requirements can be summarized numerically as follows:

Group requirements.....	49 to 51 points
Major requirement.....	28 points
Electives .....	43 to 41 points
Total requirements.....	120 points

Students' programs are planned in cooperation with the Class and Major Advisers and are filed in accordance with the general regulations of the College (see pages 149-155).

## MAJOR FIELD REQUIREMENTS

In addition to the 28 points of course work prescribed, each department requires special work to coordinate the student's knowledge in the major field. The exact nature of these requirements varies in accordance with the nature of the subject matter treated and the depart-

## DEGREE REQUIREMENTS

ment's conception of the best method of mastering it. In some, a comprehensive examination must be taken; in others, a senior thesis must be written or a senior seminar successfully completed. Specific departmental requirements are listed in the appropriate statements, beginning on page 25.

### CREDIT

All requirements must be completed within six years from the student's matriculation as a freshman at Barnard or elsewhere; within four-and-a-half years from matriculation as a sophomore; three years from matriculation as a junior; and a year and a half from matriculation as a senior.

Fifteen of the points elected during the senior year must be taken at Barnard.

In order to be recommended for the degree a cumulative average of 2.00 (C) must be maintained for the entire course and for the student's senior year specifically. (See Grading System, page 151).

### REQUIREMENTS FOR TRANSFER STUDENTS

Before registration an estimate of credit is sent to students transferring from other colleges as a guide to the requirements to be completed at Barnard. The student in conference with the Class and Major Advisers determines her program of work, taking into account her previous academic record and her future plans. The following restrictions should be observed:

Any student who has not had an introductory course in English, comparable to English A1-A2, may fulfill the requirement by passing a proficiency test during the week of registration. If the test is failed, English 1, 2 must be elected during her first year here.

Thirty of the points to be counted toward the degree must be taken at Barnard, as well as a minimum of 12 points in the major field. Only if the student's overall average in her previous college is 2.00 (C), can work of D grade done elsewhere count toward the Barnard degree.

Students who wish to complete work for the degree in a minimum of one year (30 points) are required to maintain an average standing of 2.50 (half way between B and C).

Qualified transfer students are eligible to apply for admission to the professional schools of the University on completion of required preliminary work at Barnard.

## V. Courses of Instruction

Descriptions of the courses offered by Barnard will be found in the following pages. Fuller information can be obtained from the executive officer of the departments at registration periods and during the academic year. The College reserves the right to withdraw or modify any course or to change the instructors as may be necessary.

Winter session courses are marked by odd numbers, spring session courses by even numbers, year courses by consecutive odd and even numbers. An odd number which is preceded by the prefix "R" indicates a course repeated in the spring session that is ordinarily given in the winter session. An even number preceded by "R" indicates a course repeated in the winter session that is ordinarily given in the spring session.

Indivisible courses, which run throughout the year and which must be taken as a unit, are marked with a hyphen between the numerals (History 1-2). No credit is given for work in an indivisible course dropped at mid-year without the written consent of the instructor and the Committee on Programs and Standing.

Divisible courses, which run throughout the year but which can be divided, are marked with a comma between the numerals (English 1,2). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only if all prerequisites have been met, and the written permission of the instructor obtained.

The credit value of each course is stated numerically in points following the title in all course descriptions.

Courses are arranged in examination groups to avoid conflicts on the examination schedule. The groups are indicated by boldface numerals immediately following the class hour (T Th 9:10-10:25 [6]). Group **0** includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group, except Group **0**, without a written statement from one or the other instructor that a conflict examination will be given. This statement must be filed by the student in the Registrar's Office. A complete listing of courses by examination groups is given on page 157.

The courses which are given at Columbia University and listed here as open to Barnard students are marked with an asterisk (\*). They may not be taken on an audit basis.

Foreign languages which are not taught at Barnard and are available at Columbia are open to qualified students with the approval of the Class Advisers and the University authorities.

Courses prefixed by the letters G.S. are given in the School of General Studies of Columbia University.

## INTERDEPARTMENTAL MAJORS

### 1. AMERICAN CIVILIZATION

This program is supervised by the Committee on American Civilization:

BASIL RAUCH, Ph.D., Professor of History, *Chairman*

JOHN A. KOUWENHOVEN, Ph.D., Professor of English

BERNARD BARBER, Ph.D., Associate Professor of Sociology

The purpose of the program is to develop understanding of American civilization considered as a whole. The results of specialized study in all fields of learning dealing with American subject matter are assembled for the work of the senior seminar. As a public service the lecture series in the latter course is made available to the Barnard College student body and community.

**A major in American Civilization.** Students who wish to major in American civilization should obtain from the Chairman of the Committee an application form which is to be filled out and returned to him before March 1 of the sophomore year. Applicants must show special qualifications for the major by their performance in several of the required courses. By the end of the sophomore year, applicants should complete *History 3-4*, and at least two of the required basic courses designated below. In the junior year majors should take the remaining two basic courses and *American Civilization 1, 2*, and in the senior year the two advanced courses designated below and *American Civilization 3, 4*.

#### Required Courses:

*History 3-4, Introduction to the History of American Civilization.*

Two basic courses in social sciences, a full year each, selected from the following:

*Anthropology 3, 4, Introduction to Cultural Anthropology; or 3 and 18, Problems of Race; or 4 and 18; or 9-10, The Study of Language*

*Economics 1-2, Introductory Economics*

*Geography 1, 2, Physical Geography; or 15, Regional Geography of the United States*

*Government 3, 4, An Introduction to Comparative Government; or 5, 6, An Introduction to American Government*

*Psychology 1, Introduction to Psychology, and 24, Applied Psychology*

*Sociology 1-2, Introduction to Sociology*

Two basic courses in humanities, a full year each, selected from the following:

*English 79, 80, American Literature from the Colonial Period to the Present Day; or 87, 88, American Writers and European Literature*

*Fine Arts 1-2, Introduction to the Study of Fine Arts*

*Philosophy 1, Introduction to Philosophy and 4, Metaphysics; or 1 and 5, Logic; or 1 and 22, Ethics*

*Religion 9, 10, The Bible; or 57, 58, History of Religion in America*

One full-year advanced course in one of the following social sciences in which a basic course was taken:

*Anthropology 51, 52, Seminar: Problems in Anthropology*

*Economics 7, 8, American Economic History; 19, 20, Labor Relations and Personnel Management, or any two of the following: 15, Public Finance and Fiscal Policy; 24, International Economics; 27, Development of Economic Thought; 29, Economic Fluctuations; 32, Comparative Economic Systems*

## BARNARD COLLEGE

*Geography 7, Principles of Political Geography, and 12, Conservation of Natural Resources, or*

*Geology 28, Geomorphology of the United States which may be substituted for Geography 12 by students who have taken Geology 1*

*Government 11, 12, International Relations; or 18, The United States and Contemporary World Politics; or 22, American Political Parties and Practice; or 25, 26, The Constitution of the United States; or 31, 32, The History of Political Thought*

*History 33, 34, American Colonial History; or 83, 84, History of United States Foreign Relations, or 85, 86, Studies in Twentieth Century American History*

*Psychology 37, Social Psychology, and 26, Psychology of Personality*

*Sociology—any two of the following: 31, The Family; 33, The Community I. Rural-Urban Sociology; 34, The Community II. Ethnic and Minority and Intergroup Relations; 35, American Social Classes; 38, Comparative Social Institutions; 41, Recent Sociological Theories; 42, Social Problems and Social Movements*

One full-year advanced course in one of the following humanities in which a basic course was taken:

*English—two semesters selected from the following: 81, Major American Writers; 84, Modern Literature and the Allied Arts; 82, American Vernacular Literature and Art*

*Fine Arts 78, Modern European and American Painting, and 179, American Art*

*History 43, The History of Education in the United States; or 58, History of Religion in America*

*Philosophy 61–62, The History of Philosophy; or 72, American Philosophy*

*Religion 19, 20, The Philosophy of Religion; or 25, The Ethics of the Bible and the Judeo-Christian Tradition and Their Relation to Contemporary Issues, and 31, Religious Interpretations of History; or 45, 46, History of Religious Thought in the Christian West*

### **1, 2. Junior Readings. 6 points. MRS. BAXTER.**

Students will read selected classics in American civilization and also important books dealing with subjects which they do not study in basic courses. Brief written reports for discussion in the meetings. The reading list for this course should be obtained by majors at the end of the sophomore year in preparation for entering the course in the fall. At the end of the Spring Session a summer reading assignment will be made for completion before entering the senior seminar.

Required of all junior majors in American civilization. Open to others by special permission of the Chairman of the Committee. Bi-weekly meetings of two hours. Hours to be arranged. [0]

### **3, 4. Senior Seminar. 8 points. PROFESSOR RAUCH.**

A theme will be selected each year which will require the use of materials drawn from several of the disciplines dealing with American experience. Students will conduct individual research and writing programs on a particular aspect of the general theme, and present their results to the seminar. The public lecture series in American civilization is a part of this course, and its members will attend a conference with each lecturer.

Required of all senior majors in American civilization. Open to others by spe-

## INTERDEPARTMENTAL COURSES

cial permission of the Chairman of the Committee. W 4-6 and frequent conferences. [0] 211 Milbank.

A senior research essay to be prepared in the senior seminar is required in lieu of the major examination.

### II. BRITISH CIVILIZATION

This program is supervised by the Committee on British Civilization:

SIDNEY A. BURRELL, Ph.D., Assistant Professor of History, *Chairman*

DAVID A. ROBERTSON, Ph.D., Associate Professor of English

CHILTON WILLIAMSON, Ph.D., Associate Professor of History

Open to students who wish to devote particular attention to all aspects of British civilization in the home islands and in the Empire-Commonwealth as well as to the interrelations of both with European civilization as a whole.

**A major in British Civilization.** A student who wishes to major in British civilization must obtain from the Chairman of the Committee an application form which is to be filled out and returned to him before March 1 of the sophomore year. By this time the applicant should have completed or be in the process of completing *History 1-2*. The applicant should then plan, in consultation with the Chairman, a program of study which will contain the following three required courses:

*History 11-12, England from the Norman Conquest to the Twentieth Century*

*History 35, 36, History of the British Empire*

*British Civilization 3, 4, Senior Seminar*

In addition each student should select in accordance with her interests a minimum of three courses in the following groups:

One basic course must be selected from the following:

*Economics 27, Development of Economic Thought*

*Government 32, History of Political Thought*

A second basic course must be selected from these additional offerings:

*English 37, 38, Introduction to English Literature*

*English 61, 62, Shakespeare*

*English 75, The Victorian Age in Literature*

*Philosophy 67, Seventeenth and Eighteenth Century British Philosophy and Its Influence*

*Religion 126, Protestantism and Culture*

A third course must be taken from either of the two groups listed above or from the following graduate courses:

\**Economics 245, The Economy of Britain*

\**English 281-282, Science and Imagination in the Seventeenth and Eighteenth Centuries*

\**G.S. History 159B-160B, The History and Civilization of India*

\**History 161-162, British History since 1760*

\**History 252, Puritanism and Nonconformity*

\**History 263-264, Canada in North American History*

# BARNARD COLLEGE

[**3, 4. Senior Seminar.** 8 points. PROFESSOR PEARDON and associates.

*Not given in 1955–56.]*

Individual research and the writing of papers on topics grouped around some central theme in British history and civilization.

## Major examination:

At the end of the senior year majors in British civilization will take a three-hour examination conducted by the Committee on British Civilization.

## III. AREAS STUDIES AND INTERNATIONAL RELATIONS

Officer in charge for 1955–56, PROFESSOR CARRIÉ

### A. Foreign Areas Studies

Based on a foundation of general courses in the social sciences and the command of at least one foreign language, Foreign Areas Studies are designed to enable a student to concentrate on the civilization of some one area or country of the world.

A major in Foreign Areas Studies is available to a limited number of qualified students whose applications are approved by the Committee in charge. A freshman anticipating such a major should consult the Freshman Adviser.

A student who wishes to major in Foreign Areas Studies must satisfy the foreign language requirement (page 21) before becoming a major. In her freshman and sophomore years she should also take at least 12 points in the social sciences.

After being accepted as a major, the student will be expected to specialize in the study of one country or region. For this purpose she will continue her work in language and will take such courses in the literature, fine arts, geography, history, and institutions of her chosen area as may be determined in consultation with her adviser. Wherever possible, these courses will include a seminar in the senior year.

In addition to the language courses given at Barnard, courses in many other languages are available to Barnard students at Columbia University.<sup>1</sup>

#### Areas of concentration:

1. England. See special program in British Civilization, page 27.
2. Western Europe, with special reference to some one country, Professors Bové, Breunig, Carrié, Stabenau and others.
3. Russia, Mrs. Roosa and Mr. Hearst.
4. Far East, Professor Gaston-Mahler and Mr. Hearst.
5. Latin America, Professor Florit.

#### Major examination:

Students majoring in Foreign Areas Studies are required to pass a major examination, the exact nature of which varies with the individual field.

### B. International Relations

A student who is particularly interested in the field of international relations should major in one of the social sciences, such as economics, government, or his-

<sup>1</sup> Scholarships are available to Barnard students for work in Hebrew in the School of General Studies on application to Dean Hacker.

## INTERDEPARTMENTAL COURSES

tory. With her major in her chosen subject, she should combine courses in other subjects which deal with international themes. A mimeographed list of such courses, from which selection can be made in consultation with the adviser, is available from Mr. Hearst.

In addition to the courses given at Barnard College, other courses in international relations and related fields are available at Columbia University.

### OTHER INTERDEPARTMENTAL OFFERINGS

**An interdepartmental program in the foundations of education and child study.** See page 44 for details.

**A major in natural resources** offered jointly by the Departments of Botany and Geology-Geography. Required courses are *Botany 1-2 and 12*, *Geography 10 and 12*, *Geology 1, 2 and 28*, and a Senior Seminar in Natural Resources. All majors must take a course in field ecology and conservation. So far as possible these courses should be arranged in a three or four year sequence. Other Barnard requirements must be fulfilled by courses which correlate with the major field. Further information concerning the objectives and the program of study of this major may be had from the departments concerned.

**A major in economics and government.** Students majoring in economics and government will be required to take:

*Economics 1-2; 27, 28, and 51 or 52* (the choice to be made in consultation with the adviser). *Government 3, 4; 5, 6*, and at least one additional course in government.

Other social sciences: See departmental statements.

**A major in government and history.** Students majoring in government and history will be required to take:

*Government 3, 4; 5, 6*, and at least one additional course in government. *History 1-2, 3-4*, and at least one additional course in history.

Other social sciences: See departmental statements.

**A major in government and sociology.** Students majoring in government and sociology will be required to take:

*Government 3, 4; 5, 6, and 27, 28*. *Sociology 1-2* and at least 12 additional points in sociology.

Other social sciences: See departmental statements.

**A major in economics and sociology.** Students majoring in economics and sociology will be required to take:

*Economics 1-2; 27, 28, and 51 or 52* (the choice to be made in consultation with the adviser). *Sociology 1-2* and courses amounting to 12 more points in sociology and preferably one additional course in economics or in sociology. Only one introductory course may count toward the major.

Other social sciences: See departmental statements.

### INTERDEPARTMENTAL COURSES

**Foundations of Language Learning.** 2 points. DR. GODE.

In this course the languages of the Western world (principally French, Spanish, Italian, and German) are submitted to a comparative study with constant reference to English. The aim, never lost sight of, is the characterization of the

## BARNARD COLLEGE

Western languages (1) through their common dependence on the Greco-Latin linguistic tradition and (2) in their mutual differences and deviations from a shared norm. The scope of the course involves grammatical problems, a study of Latin and Greek roots as well as general historical and cultural data. Its function is (a) to prepare beginners for subsequent work in specific languages and (b) to fill in background knowledge for those already familiar with one or more of the languages discussed. T Th 9. [6] 203 Milbank.

See also *Anthropology* 9-10.

**The Individual and Society.** 3 points. PROFESSORS NIEBUHR, MEYER, HOOK and STEWART and DR. NELSON and MRS. SHERRILL, MRS. WOODBURY, MISS NELBACH and MISS SIEGAN.

An introductory study of some of the basic questions of human existence. The course will give, through reading and discussion, an opportunity to each student to explore, through one of several disciplines, the ways in which the individual and society have attempted to answer these questions.

Required of all freshmen.

Section	I	M W F 11.	101 Barnard.
Section	II	M W F 1.	309 Milbank.
Section	III	M W F 1.	101 Barnard.
Section	IV	M W F 1.	215 Milbank.
Section	V	M W F 2.	4 Milbank.
Section	VI	M W F 3.	409 Barnard.
Section	VII	M W F 3.	4 Milbank.
Section	VIII	T Th 9:10-10:25.	311 Milbank.
Section	IX	T Th 10:35-11:50.	101 Barnard.
Section	X	T Th 10:35-11:50.	129 Milbank.
Section	XI	T Th 2:10- 3:35.	311 Milbank.

\***Colloquium Rel. 1-2. Colloquium on Religious Books.** 8 points. PROFESSORS FRIESS and ANDERSON.

Significant landmarks in the religious tradition of the West from the Gilgamesh Epic through the sixteenth century.

Open only to juniors and seniors. Written permission of the instructors required. Registration limited to 15. M 7:30-9:30 p.m. 708 Philosophy.

\***Latin-American Seminar 31-32.** 8 points. PROFESSOR MORSE, with the assistance of PROFESSORS DE MORELOS and HARRIS.

A seminar which examines the mainsprings of civilization and cultural change in Latin America. W 3-5. 207 Butler.

[**Italian 27, 28. Seminar in Italian and Russian Literature of the Nineteenth and Twentieth Centuries.** 6 points. PROFESSOR BOVÉ and DR. ULANOV.

Not given in 1955-56.]

An examination of the striking parallels and few contrasts between the two literatures in this period. *Winter Session:* The emergence of Russian poetry based upon Italian models. Manzoni's *The Betrothed*, Tolstoi's *War and Peace* and the bourgeois ideal. Dostoevski, Leopardi and the melancholy view of human nature. The rejection of Romanticism in both countries. *Spring Session:* The conflict between liberalism and totalitarianism as reflected in the two literatures. Russian and Italian Futurism. Chekhov and Pirandello. Slavic ex-

## ANTHROPOLOGY

perimentalism and Italo Svevo. Dostoevski and D'Annunzio. Literature under Fascism compared with literature under Communism. Dostoevski's vision of the totalitarian state.

### ANTHROPOLOGY

NATHALIE F. S. WOODBURY, A.B., Lecturer in Anthropology

As preparation for the major in anthropology, the department recommends as much background work as possible in the subjects required for the liberal arts degree. A student should try to complete before the junior year the requirements in history and science, particularly the introductory courses in geology, geography, and zoology.

A student majoring in anthropology is required to take: *Anthropology 1, 2; 3, 4*, and other courses depending upon individual interests, including some Columbia courses which she may elect with the consent of the Barnard department. A reading knowledge of German is urgently recommended.

In addition to the general requirements, the following combinations of courses are suggested:

For students interested primarily in the biological aspects of anthropology: *Anthropology 18, Problems of Race*, zoology, genetics (either in botany or zoology), geography.

For students interested primarily in the social sciences: *Anthropology 8, Societies around the World*; *Anthropology 17, Religion in Primitive Society*; *Anthropology 18, Problems of Race*; economics, geography, government, history, philosophy, psychology, religion, sociology.

For students interested primarily in archaeology: *Anthropology 108, The Art of Primitive Man*; ancient history, classical civilization and archaeology, geography, geology.

For students interested primarily in the humanities: *Anthropology 9-10, The Study of Language*; *Anthropology 107, The Study of Folklore*; *Anthropology 108, The Art of Primitive Man*; fine arts, geography, geology, language and literature, philosophy.

Seminars in anthropology are directed toward the special interest of majors, and other students who have had at least one course in anthropology other than *Anthropology 9-10*. A seminar may be taken more than once, and is held when warranted by the number of students eligible to take it.

The major examination is in two parts (three hours each), and is designed to test ability to coordinate the work done in the major field. Course examinations in anthropology are waived the last semester.

#### [1, 2. Introduction to Anthropology. 6 points.]

*Not given in 1955-56.]*

The evolution of man; race; development of ideas, forms of art, society, and religion. The application of anthropological methods to modern social problems; the development of reason; emotional attitudes determining behavior; the individual and society.

Open to all except freshmen.

#### 3, 4. Introduction to Cultural Anthropology. 6 points. ----- and MRS. WOODBURY.

*Winter Session:* Physical relationship, language, and customs of tribes of Africa and the South Sea islands. Their contribution to civilization; theories of origin and

## BARNARD COLLEGE

development; problems and policies of colonial government and trusteeships. *Spring Session:* The same subjects in relation to tribes of the New World (Indians of North and South America).

Open to all except freshmen. Lec. T Th 10. [7] 13 Milbank. Lab (2 hours) M 1-3 or 2-4, at American Museum of Natural History.

Courses 1, 2, and 3, 4, are ordinarily given in alternate years.

### **8. Societies around the World.** 3 points. MRS. WOODBURY.

An introduction to the study of society with comprehensive treatment of three non-literate groups living under varied geographical and technological conditions; includes consideration of problems of social change resulting from contacts with machine-age culture.

Open to all students; designed particularly for freshmen and sophomores; may be counted toward the requirement in contemporary society. T Th 2:10-3:25. [9] 37 Milbank.

### **9-10. The Study of Language.** 4 or 6 points. \_\_\_\_\_.

Language, thought, and behavior patterns; relationship of language to culture, especially literature; problems of translation. Examples are taken from English and the languages with which the students are familiar.

Especially recommended for freshmen, foreign students, and those interested in language and linguistic problems. W F 2. [5] 13 Milbank.

### **17. Religion in Primitive Society.** 2 or 3 points. \_\_\_\_\_.

Development of religious ideas; the effect of religion on culture, motivations, behavior, and cultural change.

Open to all except freshmen. W F 3. [10] 13 Milbank.

### **18. Problems of Race.** 3 points. \_\_\_\_\_.

The meaning of race: biological, linguistic, economic, social, religious, political; the nation and the melting-pot; composition and distribution of world populations and their significance; population changes and causes; the basis of prejudice.

Open to all except freshmen; may be counted toward the requirement in contemporary society. W F 3. [10] 13 Milbank.

### **51, 52. Seminar: Problems in Anthropology.** 4 points. \_\_\_\_\_.

The specific subject for discussion will be determined by the interests of the students.

Open only to those who have had at least one course in anthropology other than *Anthropology 9-10*, and with the written permission of the instructor. May be taken two years in succession. Th 1-3. 13 Milbank.

### **[107. The Study of Folklore.** 2 or 3 points.

*Not given in 1955-56.]*

Development of literary forms and style; mythology; the proverb, riddle, folk tale, verse and song; characters and plot. The course aims to acquaint students with little known material in folklore, and to indicate how it has been used, or may be used in writing.

Open to juniors and seniors.

### **[108. The Art of Primitive Man.** 3 points.

*Not given in 1955-56.]*

Control of technique; geometrical and representative design; studies of pro-

## BOTANY

portion, design, line and mass, rhythm, symmetry, balance, and color; the artist and the social group; the influence of primitive art on modern art.

Open to juniors and seniors.

### BOTANY

DONALD D. RITCHIE, Ph.D., Associate Professor of Botany  
*Executive Officer*

HELEN B. FUNK, Ph.D., Assistant Professor of Botany  
HEINZ SELTMANN, Ph.D., Assistant Professor of Botany  
PETER NIELSEN, A.B., Assistant in Botany  
LAWRENCE J. CROCKETT, A.M., Assistant in Botany

**General objectives of a major in botany** are: (1) to learn the classification of the major groups of plants, their structure, function, and relations to each other, to man, and to their environment; (2) to gain some insight into such unsolved problems as those concerning growth, energy relationships, and reproduction, and to have experience in the methods used in the attack on the problems.

All students majoring in botany take 1-2, and additional courses to make a total of 28 points. As a preliminary to graduate work, Courses 5-6, 7-8, 16, 151, and 161 are desirable, but for an introduction to the plant world, designed for personal satisfaction, or for preparation for immediate employment, other combinations are available, and are determined by the plans and desires of the student.

Related subjects: All botany majors are expected to take a year of chemistry. A student planning to become a professional botanist should also have as much physics, chemistry, zoölogy, and mathematics as her schedule permits. A reading knowledge of French or German or both will be necessary for graduate study. A botany student is also urged to study philosophy, history, and politics.

Major students are permitted to use space in the greenhouse for practical work in plant propagation.

Honors work: Majors are encouraged to undertake special projects, usually in the form of restricted research problems. These are not honors courses in the usual sense, but do require original investigation of biological problems, and may be rewarded by publication or special commendation.

**A major examination** is given which consists of a two-hour written test, with sampling questions taken from the whole field of botany, and a one-hour oral session in which each candidate is examined by the staff.

**Natural Resources.** A joint major in Natural Resources is offered by the Departments of Botany and Geology-Geography. See Interdepartmental Offerings, page 29.

#### 1-2. General Botany. 8 points. PROFESSOR RITCHIE and staff.

An introduction to the plant kingdom. The bacteria, algae, fungi, mosses, ferns and seed plants are studied. Topics considered include patterns of reproduction; heredity and evolution; intake, manufacture and utilization of nutrients; the relationship of the plant to its environment. Lecture materials are correlated with laboratory studies. Emphasis is placed upon the importance of plants to man. Lec. T Th 9 and Th 1. Lab. (2 hours) T 10-12; 2-4 or Th 2-4. [6] 335 Milbank.

## BARNARD COLLEGE

**1a-2a. General Botany.** 6 points. PROFESSOR RITCHIE and staff.

Lectures identical with those of 1-2. No laboratory work.

To follow or parallel: a laboratory science. T Th 9 and Th 1. [6] 335 Milbank.

**\*G.S. Botany 3-4. Plant Geography.** 6 points. PROFESSOR LIER.

This course deals with distribution of plant life in North America at the present time, and origin and sequence in the geologic periods. The laboratory work is in the field and aims to acquaint the student with the names and associations of our common plants.

Prerequisite: \*G.S. Botany 1-2 or Course 1-2.

Registration limited. Admission only on written permission of the instructor. M Th 6-6:50. 414 Pupin. Field Work: Hours to be arranged.

**5, 6. Morphology of Lower Forms.** 8 points. PROFESSOR SELTMANN.

*Winter Session:* Algae and fungi. *Spring Session:* Bryophytes and lower vascular plants through Gymnosperms.

Prerequisite: Course 1-2 or the equivalent. Occasional field trips are required.

Lec. M W 1. Lab. (4 hours) M W 2-4. [4] 312 Milbank.

**[7-8. Structure and Relationships of Flowering Plants.]** 8 points. PROFESSOR RITCHIE.

*Not given in 1955-56.]*

Prerequisite: Course 1-2 or the equivalent. Frequent field trips.

**[9. Genetics.** 4 points. PROFESSOR RITCHIE.

*Not given in 1955-56.]*

Mendelian principles of heredity, sex determination and differentiation, genetic control of development.

**10. Plant Culture.** 3 points. PROFESSOR RITCHIE.

Lectures include discussions of the physiological and anatomical reasons for various techniques of plant propagation, and the methods through which such reasons have become known. Laboratory work, in part, involves observations and experiments on the effects of hormones, varying environmental conditions on growth and flowering, vegetative propagation, hydroponics, grafting, germination, and hereditary variation.

No previous knowledge of botany is required. This course does not satisfy the requirements of a laboratory science. Open only on written permission of the instructor. Lec. M 4. Lab. (4 hours) M 3-4 and F 1-4. Greenhouse.

**11. Microtechnique.** 3 points. PROFESSOR RITCHIE.

Lecture and laboratory work in the theory and practice of fixing, sectioning, and staining plant material.

Prerequisite: Course 1-2. Lec. M 11. Lab. (4 hours) M W 1-3 [3] 324B Milbank.

**13. Plant Resources.** 3 points. PROFESSOR SELTMANN.

The origin, distribution and utilization of plants of primary economic import-

## BOTANY

tance. Plants considered in this course include those utilized as sources of food and beverages, woods and fibers, rubber, medicines, oils, waxes, and gums. Emphasis throughout the course is given to the relation between the use of these plants and the conservation of basic natural resources.

This course does not satisfy the requirements of a laboratory science. Lec. M W 9. Demonstrations, conferences and trips. W 10-12. [1] 312 Milbank.

### [14. Cytology. 5 points. PROFESSOR RITCHIE.]

*Not given in 1955-56.]*

Study of the cell: cell wall, nucleus and cytoplasm and their inclusions, studied by means of conventional sections, special fixation, smears, vital stains, polarized light, phase microscopy, etc.

Prerequisite: at least a year of college work in either botany or zoology.

### 16. General Plant Physiology. 4 points. PROFESSOR SELTMANN.

Translocation, transpiration, photosynthesis, respiration and other aspects of plant metabolism.

Prerequisite: *Course 1-2* and at least one year of college chemistry.

Lec. M W 9. Lab. (4 hours) M W 10-12. [1]

### 151. Introduction to Microbiology. 4 points. PROFESSOR FUNK.

Survey of structure, distribution, and activities of microorganisms in soil, water, and foods. Some attention will be devoted to industrial processes, antibiosis, causation of disease, and immunological reactions.

Prerequisites: one year of college work in botany or zoology and preceding or parallel, organic chemistry. Certain exceptions are allowed. Written permission of the instructor is required.

Open to juniors and seniors. Lec. M W 2. Lab. (4 hours) M W 3-5. [5] 324 Milbank.

### 152. Advanced Microbiology. 4 points. PROFESSOR FUNK.

Advanced cytological techniques, the growth curve, and variation in microorganisms. Study of certain natural and important groups within the true bacteria, actinomycetes, and yeasts.

Prerequisite: *Course 151* or equivalent. Written permission of the instructor is required. Lec. M W 2. Lab. (4 hours) T Th 3-5. [13] 324 Milbank.

### 159. Microbial Physiology. 5 points. PROFESSOR FUNK.

General physiology of microorganisms.

Written permission of the instructor is required. Hours to be arranged. 324 Milbank.

### 161, 162. Special Problems in Microbiology, Morphology, and Physiology. 2 to 8 points. Staff.

Work will be planned to suit the needs and interests of the students. This course may be taken in successive years. Hours and credit by arrangement. [0]

# BARNARD COLLEGE

## CHEMISTRY

HELEN R. DOWNES, Ph.D., (Cantab.), Professor of Chemistry  
*Executive Officer*

EDWARD J. KING, Ph.D., Associate Professor of Chemistry

EMMA D. STECHER, Ph.D., Associate Professor of Chemistry

LUCILLE H. ALTSCHUL, Ph.D., Instructor in Chemistry

LENORE F. MEADOWS, A.M., Instructor in Chemistry

AUDREY H. APPEL, A.B., Assistant in Chemistry

MARILYN WURTZEL, B.S., Assistant in Chemistry

**A major in chemistry** is designed: (1) to make clear the orderly nature of the universe as exemplified in chemical processes, and to indicate the methods by which this order has been, and still is being, elucidated; (2) to provide the student with an understanding of the fundamental importance of chemistry both in modern industry and in the biological world; and (3) to provide for those students who wish it the necessary pre-professional training for careers in teaching, in medicine or in chemical research.

**A student majoring in chemistry** must fulfill the following requirements:

Chemistry courses: General elementary chemistry (1-2); qualitative analysis (23); quantitative analysis (24); organic chemistry (41-42) and conferences in chemistry (99); physical chemistry (105, 106) and physical chemistry laboratory (107) are strongly advised.

**Allied subjects:** General physics should be taken as early as possible. Trigonometry and analytic geometry must be completed before taking quantitative analysis. A reading knowledge of German must be acquired before taking the second semester of organic chemistry. Majors are strongly advised to take a year of calculus and to acquire a reading knowledge of French.

Majors who complete a program prescribed by the American Chemical Society receive an accrediting certificate from the Society. Besides the courses required of all chemistry majors, these students must take (105, 106) and physical chemistry laboratory (107), in addition to at least 4 points of advanced lectures and 2 points of advanced laboratory.

**The major examination** is given in two parts: the general factual material is covered in a three-hour Graduate Record examination, given in April of the senior year. Near the end of the senior year there is a four-hour examination of the essay type, designed to test the student's ability to assemble facts and co-ordinate material in some of the broader fields of chemical knowledge.

**1-2. General Elementary Chemistry.** 8 points. PROFESSOR DOWNES, DR. ALTSCHUL, MISS WURTZEL, and MISS MEADOWS.

Lectures on the chemistry of inorganic compounds, with emphasis on fundamental chemical principles and theories. A brief introduction to organic chemistry.

For students with no previous chemistry: Lec. T Th 9, Th 1 and a recitation hour F 1 or S 10. Lab. M T W or Th 2-4:30. [19] 423 Milbank.

For students with high school chemistry: Lec. T Th 10 and a recitation hour F 1 or S 10. Lab. M T W or Th 2-4:30. [19] 423 Milbank.

**1a-2a. General Elementary Chemistry.** 6 points. PROFESSOR DOWNES, DR. ALTSCHUL and MISS MEADOWS.

Lectures and recitations identical with those of 1-2. No laboratory work.

## CHEMISTRY

Prerequisite: preceding or parallel, a laboratory science. Lec. T Th 9 or 10 and a recitation hour F 1 or S 10. [19] 423 Milbank.

### 23. Qualitative Analysis. 6 points. PROFESSOR KING and assistant.

Lectures on solutions of electrolytes and ionic equilibria. The laboratory work consists of qualitative analysis on a semi-micro scale.

Prerequisite: *Course 1-2, Mathematics 1* and preceding or parallel, *Mathematics 22*. Laboratory deposit, \$10. Lec. M W F 10. Lab. (a minimum of 6 hours) T Th 2-5 and, if warranted by the registration, T Th 9-12. [2] 423 Milbank.

### 24. Quantitative Analysis. 6 points. DR. ALTSCHUL and assistant.

An introduction to basic quantitative techniques.

Prerequisite: *Course 23*. Laboratory deposit, \$15. Lec. M W F 10. Lab. (a minimum of 8 hours) T Th 2-6 and, if warranted by the registration, M W 2-6. [2] 423 Milbank.

### 26. Quantitative Analysis, Special Course. 6 points. DR. ALTSCHUL and assistant.

This course is intended for students who are not chemistry majors and who have not taken *Course 23*. The third lecture hour is used for further discussion of the principles of ionic equilibria.

Prerequisite: *Course 1-2*. Laboratory deposit, \$15. Lec. M W F 10. Lab. (a minimum of 6 hours) T Th 2-5. [2] 423 Milbank.

### 41. Organic Chemistry. Lectures (41a, 4 points) and laboratory (41b, 2 points). PROFESSOR STECHER and assistant.

Lectures on the typical reactions of aliphatic compounds with a short introduction to aromatic chemistry. Laboratory work in fundamental organic preparations. This course satisfies the minimum requirement for most medical schools.

Prerequisite: *Course 1-2*. Laboratory deposit, \$15. Lec. M W F 9 and Th 1. [1] Lab. (a minimum of 6 hours) T Th 9-12 or 2-5. [0] 423 Milbank.

### 42. Organic Chemistry. Lectures (42a, 4 points) and laboratory (42b, 2 points). PROFESSOR STECHER and assistant.

A continuation of *Course 41*. Lectures emphasize aromatic chemistry and include some material on natural products and modern theories. The laboratory work includes semi-micro preparations and an introduction to qualitative organic analysis.

Prerequisite: *Courses 1-2, 41* and, except with special permission, 23, 24. A reading knowledge of German is required for chemistry majors. Laboratory deposit, \$15. Lec. M W F 9 and Th 1. [1] Lab. (a minimum of 6 hours) T Th 9-12 or 2-5. [0] 423 Milbank.

### 63, 64. Advanced Laboratory Course. 4 or 6 points. PROFESSORS DOWNES, STECHER, and KING.

Conferences and laboratory work in the fields of advanced organic or inorganic synthesis or of quantitative inorganic, organic, or physiological chemistry.

Open to students who have completed the major requirements except *Course 99*. Laboratory deposit, \$15. Laboratory hours to be arranged. [0]

### 99. Conferences in Chemistry. 2 points. Members of the department.

Readings and discussion of selected topics.

Required of majors in their senior year. F 3-5. [0] 423 Milbank.

## BARNARD COLLEGE

### 105, 106. Physical Chemistry. 6 points. PROFESSOR KING.

A course in chemical principles covering the states of matter and the phase rule; electrochemistry; chemical kinetics; elementary thermodynamics and chemical equilibrium.

Except by special permission, chemistry majors must elect *Course 107* parallel to 105.

Prerequisite: *Courses 1-2; Physics 3-4 and Mathematics 31-32.* Lec. M W F 11. [3] 423 Milbank.

### 107. Physical Chemistry Laboratory. 3 points. PROFESSOR KING.

Experiments illustrating the physico-chemical approach to the study of liquids and gases, thermochemistry, chemical and phase equilibria, chemical kinetics, electrochemistry and radiochemistry. Except by special permission chemistry majors must take this course parallel to 105.

Prerequisite: *Courses 23, 24; 105 (parallel); Physics 3-4; Mathematics 31-32.* Laboratory deposit, \$15. Lab. (a minimum of 6 hours) T Th 2-5. [0]

### 108. Advanced Physical Chemistry Laboratory. 3 points. PROFESSOR KING.

Projects of an extended nature which may be suggested by recently published work. Lectures on instrumental methods.

Prerequisite: *Courses 107; 106 (parallel).* Laboratory deposit, \$15. Lec. T 2. Lab. (a minimum of 5 hours) T 3-5, Th 2-5. [0] 423 Milbank.

### 137, 138. Problems in Chemistry. 4, 6, or 8 points. PROFESSORS DOWNES, KING, and STECHER.

Advanced individual laboratory projects for students who have completed the major requirements except *Course 99.* Laboratory deposit, \$15 each session. Hours and credit by arrangement. [0]

### 145. Organic Chemistry, Advanced Course. 3 points. PROFESSOR STECHER.

Advanced topics including modern theories of the mechanisms of organic reactions and the chemistry of some natural products.

Open only to students who have completed the major requirements except *Course 99.* Lec. M W F 1. [4] 423 Milbank.

### 150. Physiological Chemistry. 3 points. PROFESSOR DOWNES.

A course dealing with the chemistry of the living cell, the raw materials of cell metabolism and intermediary metabolism. The quantitative laboratory work associated with this course may be given as *Course 64.*

Prerequisite: *Courses 23, 24; 41-42 and Zoölogy 1-2.* Lec. M W 1 and Th or F 2. [4] 423 Milbank.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. A description of the courses will be found in the Announcement of the Faculty of Pure Science. The following courses are suggested:

### \*156. Quantitative Organic Analysis. 6 points.

### \*177. Methods of Chemical Analysis for Vitamins and Other Food Constituents. 6 points.

## CLASSICAL CIVILIZATION

See *Greek and Latin*

## DRAMA

The Minor Latham Drama Workshop is the center of activities for Barnard students interested in the theater. They take part in the work of the college dramatic club, *Wigs and Cues*, the *Gilbert and Sullivan Society*, the French, German, Italian, and Spanish Clubs, the several dance groups, the *Barnard Bulletin's* dramatic column, the Columbia College radio station, and the Brander Matthews Theater of the University. There is opportunity to study productions on and off Broadway. As might be expected, the life of the college is colored by New York's interest in the dramatic arts.

The students major in many departments, bringing to the activities of the Workshop their special abilities. Among the academic courses concerned with the theater are the following, described in detail in the departmental announcements:

## ENGLISH

**Drama Workshop 1, 2; 3, 4.** 6 or 8 points. PROFESSOR HOUGHTON, MRS. URMY, MESSRS. SWEET and CAMPBELL.

**14. Writing for Radio and Television.** 2 or 3 points. MR. TEICHMANN.

**21, 22. Voice and Diction.** 6 points. MR. NORMAN and MRS. LIPMAN.

**23, 24. Oral Interpretation of Literature.** 6 points. MISS NELBACH.

**27, 28. Public Speaking.** 6 points. MR. NORMAN.

**53, 54. Development of English Drama.** 6 points. PROFESSOR HOOK.

[**55. The Development of the Theater.** 3 points. MISS GILDER.]

*Not given in 1955-56.]*

**58. Drama from Ibsen to the Present.** 2 points. DR. ULANOV.

**61, 62. Shakespeare.** PROFESSOR ROBERTSON.

\***F.A. Acting 105-106. Theater Reading.** 4 points. MISS KELLER.

\***F.A. Play Directing 105-106.** 6 points. MR. SCHNITZER.

\***F.A. Stagecraft 109-110. Stage Design.** 4 points. MR. THOMPSON.

## FINE ARTS

A course in the Arts of the Theater in the Orient by PROFESSOR GASTON-MAHLER is proposed for 1956-57. For present courses see pages 56, 57 noting especially *Courses 70, 91, 92.*

## FRENCH

[**17, 18. French Phonetics.** 6 points. PROFESSOR PLEASANTS.]

**23. The French Classical Theater.** 3 points. PROFESSOR BREUNIG.

**30. The French Theater in the 20th Century.** PROFESSOR BREUNIG.

## GERMAN

**5, 6. Lessing, Goethe, and Schiller.** 6 points. PROFESSOR STABENAU.

# BARNARD COLLEGE

## GREEK and LATIN

[**21. Greek Tragedy.** 3 points. PROFESSOR NORTH.]

**26. Roman Drama.** 3 points. PROFESSOR NORTH.

## ITALIAN

**29. From the Miracle Play to the Melodrama in Italy.** 3 points. PROFESSOR BOVÉ.

## MUSIC

**16. The Opera.** 3 points. PROFESSOR LOUGHBOROUGH.

**39–40. Composition in the Smaller Forms.** 4 points. PROFESSOR LUENING.

\***131–132. Composition in the Larger Forms.** 4 points. PROFESSOR BEESON.

## PHYSICAL EDUCATION

It is recommended that students take work each term in body mechanics. The courses in Modern Dance and Fencing are particularly useful.

## SPANISH

**17–18. The Spanish Drama of the Golden Age.** 6 points. PROFESSOR DEL RÍO.

## ECONOMICS

MARION HAMILTON GILLIM, Ph.d., Associate Professor of Economics  
*Executive Officer*

<sup>1</sup>RAYMOND J. SAULNIER, Ph.D., Professor of Economics

CLARA ELIOT, Ph.D., Assistant Professor of Economics

ROBERT LEKACHMAN, Ph.D., Assistant Professor of Economics

ROSEMARY ARNOLD, A.B., Instructor in Economics

MICHAEL H. BELSHAW, A.B., Lecturer in Economics.

A major in economics is planned to give the student an understanding of economic life and the preparation for a critical evaluation of economic conditions. According to her interests, a student may arrange her program to emphasize descriptive economics or economic analysis. The courses offered treat the history of economic institutions and thought as well as current economic affairs, both domestic and international. Students are encouraged to take advantage of the unique opportunities for field trips in the metropolitan area.

A student majoring in economics will be required to take 1–2, 27 or 28, and 51, 52. Courses 5–6 or 7–8, and 17, 18 are strongly recommended.

Other social sciences: In view of the essential unity of the social sciences, a major is required to take, in addition to a minimum of 28 points in economics, courses amounting to 12 points in two of the following departments, selected in conference with her adviser: anthropology, geography, government, history, philosophy, psychology, religion, sociology. See also Interdepartmental Offerings, page 29.

A senior essay will be required of each major in connection with the seminar. There will be no major examination. Seniors will take course examinations.

<sup>1</sup> Absent on leave, 1955–56.

## ECONOMICS

**1-2. Introductory Economics.** 6 points. PROFESSORS GILLIM and LEKACHMAN, MRS. ARNOLD and MR. BELSHAW.

A study of the central problems of our economic system. *Winter Session:* How individuals' incomes vary and their relation to education, occupation and other factors; how businesses and labor groups are organized; the role of government, with particular reference to raising revenues, planning expenditures and providing social services; how the level of national income is governed by spending, saving and investment activities; how our monetary and banking system works and its relation to inflation and deflation. *Spring Session:* How our central banking system works and its relation to economic stability; what can be done to lessen the ups and downs of business; how our policies of trade and foreign investment relate to world prosperity; the counter claims of conflicting economic systems—the enterprise system, "planned economy," socialism and communism. [18]

*For sophomores, juniors and seniors:*

Section I M W F 10. 203 Milbank.  
Section II M W F 2. 203 Milbank.  
Section III T Th 9:10-10:25. 319 Milbank.

*For freshmen and sophomores:*

Section IV M W F 9. 203 Milbank.

**3. Economic Problems of the Consumer.** 2 or 3 points. PROFESSOR ELIOT.

The consumer end of marketing—advertising, brands, grade labels. Governmental protection of consumers. Consumer organizations, especially co-operatives. Standards and levels of living. Problems of medical care and housing. Consumer aspects of tax and trade policies.

Project or paper for third point. Open to all except freshmen. T Th 9. [6] 209 Milbank.

**4. Personal Finance.** 2 or 3 points. PROFESSOR ELIOT.

Budgeting and record-keeping for the individual or family. Effects of inflation and taxation. Insurance, annuities and Social Security. Installment buying and other credit problems. Investing for security and income.

Project or paper for third point. Open to all except freshmen. T Th 9. [6] 209 Milbank.

**5-6. General Economic History.** 6 points. MRS. ARNOLD.

A survey of the development of economic institutions. The genesis of market forms and planning techniques in antiquity and their divergent patterns of development in East and West. The emergence of modern capitalism in Western Europe and its evolution through various phases. Problems of bureaucracy and freedom will be considered in their relation to the different forms of economic organization. Students may select foreign areas for special emphasis.

Open to all except freshmen. M W F 1. [4] 209 Milbank.

**[7-8. American Economic History.** 6 points. MRS. ARNOLD.

*Not given in 1955-56.]*

A survey of economic development from the colonial period to the New Deal: the adaptation of European institutions and ideologies to the American situation; changing patterns of mercantile, industrial, finance and welfare capitalism; the role of government and private enterprise at each period; implications for current economic and social policy.

Open to all except freshmen.

# BARNARD COLLEGE

## 9. Money and Banking. 3 points. MR. BELSHAW.

A survey of the organization and functioning of the commercial banking system, the Federal Reserve System, and other American monetary and financial institutions. Leading issues of public policy with respect to money and credit will be discussed.

Open to all except freshmen. T Th 10:35–11:50. [7] 211 Milbank.

## 15. Public Finance and Fiscal Policy. 3 points. PROFESSOR GILLIM.

A study of our tax, expenditure, and debt systems, including a discussion of federal, state, and local fiscal relations. Analysis of current budgetary problems. The role of fiscal policy in achieving desired levels of employment, prices, and income.

Prerequisite: *Course 1–2* or the equivalent. M W F 11. [3] 406 Barnard.

## 17, 18. Introductory Statistics. 6 points. PROFESSOR GILLIM.

*Winter Session:* The class will make a survey involving the collection, editing, tabulation, presentation, and analysis of statistical data. Course work and laboratory exercises will deal with graphic presentation; the frequency distribution and its descriptive measures; linear correlation. *Spring Session:* The making and interpretation of index numbers; the analysis of time series; non-linear correlation; and some applications to economic and social data of the normal curve of error.

Open to all except freshmen. *Course 17* is a prerequisite of *Course 18*. M W 9 and two hours of laboratory work: M 3–5 or T 3–5. [1] 323 Milbank.

## 19, 20. Labor Relations and Personnel Management. 6 points. MRS. ARNOLD.

*Winter Session:* The present position and policies of organized labor viewed in the perspective of a changing economic, political and legal environment. *Spring Session:* Selected problems in collective bargaining and personnel administration. Student projects based on field work and case studies.

Open to all except freshmen. *Winter Session:* M W F 10. [2] 13 Milbank. *Spring Session:* M W 10, and additional hours for field work to be arranged. [2] 13 Milbank.

**In-Service Training Program:** A limited number of opportunities for on-the-job training are offered in connection with this course. Additional points will be credited for such work under *Economics 61, 62*. Students wishing to participate must plan their program with the instructor *before registration*.

## 24. International Economics. 3 points. PROFESSOR GILLIM.

A survey of international monetary and trade problems. The mechanisms and theory of international exchange. The operation of the international trading system with particular reference to the position of the United States and Britain in the world economy. Foreign economic policy. International organizations, including the International Monetary Fund, the International Bank for Reconstruction and Development, the International Labor Organization, the European Coal and Steel Community.

Prerequisite: *Course 1–2* or the equivalent. M W F 11. [3] 406 Barnard.

## 27. Development of Economic Thought. 3 points. PROFESSOR LEKACHMAN.

A systematic presentation of the development of economic thought beginning with Smith, continuing with Ricardo, Malthus, and Mill, and culminating in the work of Marshall in England. There will be an attempt to relate the work of each man to the persistent problems of his time. Considerable attention will also be de-

## ECONOMICS

voted to the intellectual reaction to classical theory represented by Marx and Veblen. Readings will be assigned in original texts.

Prerequisite: *Course 1-2.* T 2, Th 2-4. [9] 321 Milbank.

### 28. Economic Analysis. 3 points. MR. BELSHAW.

Building upon the historical basis of earlier economic thought, this course will include the major topics of current economic theory: the neo-classical explanations of value, distribution, and competitive price; Chamberlin's theory of monopolistic competition; and the modern theory of demand. This part of the semester's work will be devoted largely to an analysis of the individual firm and industry. The second part will consider the Keynesian theory of employment, both as a tool of economic analysis and as a basis for governmental policy. Current problems will be stressed.

Prerequisite: *Course 1-2.* T 2, Th 2-4. [9] 321 Milbank.

### [29. Economic Fluctuations. 3 points. PROFESSOR LEKACHMAN.]

*Not given in 1955-56.]*

Lectures and discussions center upon three topics: how to measure business cycles, how to explain them, and how to control them by appropriate public policies.

Prerequisite: *Course 1-2.*

### 32. Comparative Economic Systems. 3 points. PROFESSOR LEKACHMAN.

A description of the economic problems of the United States, England and Russia, and a comparison of the economic organization of these countries with abstract conceptions of capitalism and socialism.

Open to juniors, seniors and to sophomores by special permission. T Th 10:35-11:50. [7] 319 Milbank.

### 51, 52. Economics Seminar. 6 points. PROFESSOR LEKACHMAN.

Required for senior majors. Reading, reports and discussion. W 3-5. [0] 303 Milbank.

### 61, 62. Studies in Economics. 2 or 4 points. Members of the department.

Additional credits may be obtained in this course for supervised work done in connection with some other course in economics. Special reports, a term paper or the completion of supervised field work is required. The course may be repeated. [0]

### 63, 64. Statistical Projects. 2 to 6 points. PROFESSOR ELIOT.

An opportunity for conducting individual research projects in economics or social studies. Experience in gathering and analyzing data, possible field work, or supervised work with off-campus research organizations. Frequent individual conferences.

Prerequisite: *Course 17* and permission of the instructor. Hours to be arranged. [0]

### [123, 124. Financial Institutions. 6 points. PROFESSOR SAULNIER.]

*Not given in 1955-56.]*

A study of the functioning of the principal public and private agencies comprising the financial system of the United States, and of corporate financial policies, from the viewpoint of their relation to the flow of money payments and the process of capital formation.

Prerequisite: *Courses 1-2 and 9*, except with the permission of the instructor.

# BARNARD COLLEGE

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. A description of these courses will be found in the Announcements of the Faculty of Political Science and the Graduate School of Business. Students should consult their major adviser in making course selections.

## EDUCATION

HELEN P. BAILEY, Ph.D., Dean of Studies  
*Chairman of Interdepartmental Committee on Education*  
HELEN G. TRAGER, A.M., Assistant Professor of Education

Barnard College offers an interdepartmental program for students who wish to prepare themselves to teach in elementary and secondary schools. The following courses are based on the requirements in various states for public school teaching; they satisfy these requirements wholly or in part.

These courses do not constitute a major, but are to be taken in conjunction with a major in some subject in which the student is interested. Practice teaching at the Dalton Schools and in Public School 75 is available to qualified seniors. Six points of college credit will be allowed for two mornings a week throughout the year. Application forms for admission to *Education 3-4* may be obtained in the Office of the Dean of Studies.

### **Education 1-2. Elementary Education.** 6 points. PROFESSOR TRAGER.

A full-year course designed to equip those interested in teaching with information on the fundamental teaching skills. The first half will include common elementary school practices and the principles underlying them. Trips will be made to nearby city and country schools for observation. The second half of the year will be devoted chiefly to the development of methods and techniques of teaching children. Included will be the following: the language arts, arithmetic, the building of social study and science units, inter-group planning and teacher-pupil relationships.

Must be taken parallel to *Course 3-4*. M W F 3. [10] 309 Milbank.

### **Education 3-4. Practice Teaching at the Dalton Schools and in Public School 75.** 6 points. PROFESSOR TRAGER, Director.

This course affords 240 clock hours of practice teaching.

Must be taken parallel to *Course 1-2*, unless the practice teaching is at the secondary level. T Th 8:30-12:30. [0]

### **History 43. The History of Education in the United States.** 3 points. PROFESSOR HARRINGTON.

The development of education in the United States presented and assessed against the background of political, philosophical, religious and scientific thought. Emphasis will be placed upon the social and intellectual forces which have shaped educational purposes, programs and institutions. M W F 2. [5] Theater.

### **Philosophy 84. The Philosophy of Education.** 3 points. \_\_\_\_\_.

The values and goals of education; a study of contemporary problems against their historical backgrounds. Reading will include selections from the works of Plato, Aristotle, Milton, and Rousseau, as well as contemporary critics such as Dewey, Hutchins, Maritain, and Ortega y Gasset.

Prerequisite: *History 43*. M W F 2. [5] 4 Milbank.

## ENGLISH

**Psychology 16. Educational Psychology.** 3 points. DR. CUMMING.

A survey of the applications of psychology to modern educational practice and theory. Among the topics specially emphasized are motivation, social and individual development, and the appraisal and direction of learning.

Prerequisite: *Course 1* (or *R1*), or the equivalent. M W F 1. [4] 215 Milbank.

**Psychology 27. Psychology of Childhood.** 4 points. PROFESSOR KENDLER.

A detailed study of the practical problems of infancy and early childhood, with special emphasis on learning, emotional development, social adjustment, and modern conceptions and methods of child training and guidance. Observation of children in a nursery school for one hour each week.

Prerequisite: *Course 1* or equivalent. M W F 10. [2] 335 Milbank.

**Psychology 28. Psychology of Adolescence and Maturity.** 3 or 4 points. PROFESSOR KENDLER.

The mental, social, moral, and emotional development of adolescents and mature persons will be studied, special attention being given to such topics as guidance, adjustment, interests, motivation, home problems, sex relations, recreation, delinquency, and citizenship.

Prerequisite: *Course 27*. M W F 10. [2] 335 Milbank.

## ENGLISH

W. CABELL GREET, Ph.D., McIntosh Professor of English  
*Chairman of the Department*

DAVID A. ROBERTSON, Jr., Ph.D., Associate Professor of English,  
*Departmental Representative*

ELEANOR ROSENBERG, Ph.D., Assistant Professor of English  
*Director of English A*

BARRY ULANOV, Ph.D., Instructor in English  
*Secretary and Examinations Officer*

NORRIS HOUGHTON, A.B., Adjunct Professor of the Drama  
*Director of the Minor Latham Drama Workshop*

ADOLPHUS J. SWEET, A.M., Associate in English  
*Assistant Director of the Minor Latham Drama Workshop*

JOHN A. KOUWENHOVEN, Ph.D., Professor of English

LORNA F. MC GUIRE, Ph.D., Associate Professor of English

LUCYLE HOOK, Ph.D., Associate Professor of English

ELEANOR M. TILTON, Ph.D., Associate Professor of English

FREDERICA P. BARACH, A.B., Assistant Professor of English

ROSALIE COLIE, Ph.D., Assistant Professor of English

<sup>1</sup>Rosamond Gilder, Associate in English

S. PALMER BOVIE, Ph.D., Associate in English

HOWARD TEICHMANN, A.B., Associate in English

MILDRED DUNNOCK URMY, A.B., M.S., Associate in English

JOHN CHEEVER, A.B., Associate in English

GEORGE PLIMPTON, A.B., Associate in English

<sup>1</sup> Absent on leave, 1955-56.

# BARNARD COLLEGE

PATTON CAMPBELL, A.B., M.F.A., Associate in English  
INEZ G. NELBACH, A.M., Instructor in English  
REMINGTON P. PATTERSON, A.M., Instructor in English  
RICHARD NORMAN, A.M., Lecturer in English  
NAOMI L. LIPMAN, A.M., Lecturer in English  
<sup>1</sup>JAMES L. CLIFFORD, Ph.D., Professor of English  
<sup>1</sup>LEWIS LEARY, Ph.D., Professor of English  
<sup>1</sup>MILTON SMITH, Ph.D., Professor of Dramatic Arts  
<sup>1</sup>JANE D. ZIMMERMAN, Ph.D., Professor of Speech  
<sup>1</sup>GERTRUDE IMOGENE KELLER, Instructor in Dramatic Arts  
<sup>1</sup>PIERRE R. GARAI, Ph.D., Instructor in English  
<sup>1</sup>WOODMAN THOMPSON, A.B., Lecturer in Dramatic Arts  
FRANK RINALDI, Assistant in Drama

**A major in English.** If you major in English you will have three principal objectives which will determine your program of studies:

**To develop the capacity to read with understanding a considerable number of the principal writers in English.** To aid you in this, the department requires that you shall satisfactorily complete at least a semester course (or its equivalent) dealing with: a. Chaucer, b. Shakespeare, c. Milton, d. some major writers of the 18th century, e. some major writers, English or American, of the 19th and 20th centuries, to be selected in consultation with the Departmental Representative or with your major adviser.

**To do additional work in one of the following special fields:** a. English literature before 1700, b. English literature since 1700, c. American literature, d. drama, e. writing, f. speech. In exceptional circumstances other special fields can be arranged to meet specific needs.

Preferably before registering for your junior year, and certainly before registering for your senior year, you must determine, in consultation with the Chairman of the Department or the Departmental Representative, which of these fields you will select and who is to be your major adviser. With your adviser, you will determine which courses you will take, in this and other departments, to round out your work in the special field.

**To know the main outlines of literary history and to have some knowledge of the development of the language.** As a check upon such knowledge, you will take, not later than the beginning of your senior year, an examination on the history of literature for which you must prepare in course or by independent reading; and you must either pass a semester's work in one of the courses numbered from 41 to 48 (below) or pass a special examination on Anglo-Saxon or Middle English.

At the end of the senior year, a major examination of six to nine hours is required.

## INTRODUCTORY COURSES

**A1-A2. Reading, Writing, and Speaking.** 6 points. PROFESSORS KOUWENHOVEN, McGuIRE, ROBERTSON, HOOK, TILTON, ROSENBERG, BARACH and COLIE, DRs. BOVIE and ULANOV, and MESSRS. PATTERSON, PLIMPTON and SWEET.

An approach to literary skills through intensive reading, regular assignments in composition, and discussion; individual conferences with instructor each week.

Prescribed for freshmen. The only other English courses open to freshmen are

<sup>1</sup> Officer of Columbia University giving instruction in Barnard College.

## ENGLISH

Courses 20, 21-22, R21, 27, 28, any of which may be taken parallel to A1-A2. Students not thoroughly accustomed to the use of English should consult PROFESSOR ROSENBERG before registering for this course.

All sections of English A1-A2 meet in Barnard Hall as follows:

Section	I	M W F	9.	Room 406.
Section	II	M W F	9.	Room 409.
Section	III	M W F	10.	Room 411.
Section	IV	M W F	10.	Room 406.
Section	V	M W F	10.	Room 405.
Section	VI	M W F	11.	Room 411.
Section	VII	M W F	11.	Room 405.
Section	VIII	M W F	1.	Room 410.
Section	IX	M W F	1.	Room 411.
Section	X	M W F	2.	Room 405.
Section	XI	M W F	2.	Room 409.
Section	XII	T Th	10:35-11:50.	Room 405.
Section	XIII	T Th	10:35-11:50.	Room 409.
Section	XIV	T Th	2:10- 3:25.	Room 405.

**A3, A4. Reading, Writing, and Speaking of English for Foreign Students.**  
8 points. —————.

To be taken in place of A1-A2 by students not thoroughly accustomed to the use of English. T Th 9:10-10:25 plus two conferences each week. [0] 407 Barnard.

**D1, D2. Speech.** No credit. Miss NELBACH.

Individual speech examinations for transfer students who have not had the equivalent of, and who are not enrolled in, English A1. Hours to be arranged. [0]

### WRITING

General prerequisite, Course A1-A2. To elect any course in writing, a student must secure the written permission of the instructor in charge, or of the Chairman or the Departmental Representative. See also Courses 63 and 64.

**1, 2. English Composition.** 6 points. PROFESSOR HOOK and DR. ULANOV.

A course designed especially for students who need additional training in composition beyond the first-year level. Emphasis on correct and clear expression, and sound organization of materials. Students may take either semester or both. Cannot be counted toward a major in English. M W F 11. [0] 409 Barnard.

**3, 4. Exposition: Structure and Style.** 6 points. MR. PLIMPTON.

An advanced course in composition including study of exposition, narration, description, and argumentation. Weekly compositions required. Students may take either semester or both. T Th 10:35-11:50. [0] 407 Barnard.

**5, 6. Advanced Composition.** 6 points. PROFESSOR KOUWENHOVEN.

The members of the class will keep daily journals and work up the material in finished papers, fiction and non-fiction. Students may take either semester or both. M W F 2. [0] 411 Barnard.

## BARNARD COLLEGE

Note: The following courses are open only to those who have passed at least one semester of 3, 4, 5, or 6 with a grade of B— or better, or who have received written permission from the Chairman or the Departmental Representative.

### [7, 8. Writing Non-Fiction. 6 points. ———.]

*Not given in 1955–56.]*

Gathering material for use in writing history, biography, criticism, and articles. Exercises in writing in these forms with special emphasis on the creative element necessary to readable non-fiction.

*Course 7 is prerequisite to Course 8.*

### 11, 12. Story Writing. 6 points. MR. CHEEVER.

Three short stories are written each term. Weekly individual conferences with the instructor, group discussion of technical problems, and wide reading in the short story.

*Course 11 is prerequisite to Course 12. M 3–5. [0] 410 Barnard.*

### 13, 14. Dramatic Writing. 4 or 6 points. MR. TEICHMANN.

The development of a dramatic situation in terms of short fiction, the theater, television, motion pictures, and radio.

Prerequisite: *Course 3, 4 or the equivalent T 2:10–3:25. [0] 410 Barnard.*

## SPEECH

For courses important to students of speech, other than those listed below, see *Courses 42, 43; 47, 48; Drama Workshop 1, 2; 3, 4; \*F.A. Acting 105–106*. The college dramatic club, *Wigs and Cues*, the college debating society, and the campus radio station, *WKCR*, offer practical experience.

### 20. Extemporaneous Speaking. 1 point. MISS NELBACH.

Practice in discussion and speaking to small groups for students who wish help in making themselves understood, and who wish experience in thinking on their feet. Th 1. [0] 410 Barnard.

### 21–22. Voice and Diction. 6 points. MR. NORMAN and MRS. LIPMAN.

A basic course in the fundamentals of speech and voice production designed to aid each student in acquiring clear speech, a pleasing voice, reasonable self-assurance, and the ability to make herself understood. *Winter Session:* Drills in voice production and English phonetics with phonograph and dictaphone recordings. *Spring Session:* An intensive study of phrasing, intonation, rhythm, and stress. Registration limited to 15 students. Written permission of the instructor required.

Section I M W F 11. [0] 410 Barnard.

Section II T Th 10:35–11:50 [0] 410 Barnard.

### R21. Voice and Diction. 3 points. MISS NELBACH.

Same as *Course 21*, but given in Spring Session. T Th 9:10–10:25. [0] 410 Barnard.

### 23, 24. Oral Interpretation of Literature. 6 points. MISS NELBACH and MRS. LIPMAN.

The study and presentation of ballads, lyrics, monologues, and essays. M W F 9. [0] Section I 410 Barnard. Section II 411 Barnard.

**27, 28. Public Speaking.** 4 or 6 points. MR. NORMAN.

Training in the delivery of prepared and extemporaneous speeches and in leading and participating in panel and round-table discussions. Techniques of argumentation and debate. Parliamentary procedure. T Th 2:10-3:25. [0] 410 Barnard.

The following courses, given at Teachers College, are open to English majors whose special field is Speech and to majors in Psychology. See your major adviser.

**Education 261 KE. Speech Development and Correction.** 2 or 3 points. PROFESSOR ZIMMERMAN.

A study of the speech problems of students on the kindergarten, elementary, secondary, and adult school levels. Demonstrations are given. F 7:30-9:10 p.m.

**Education 261 KEx-262 KEx. Speech Improvement Laboratory.** 2 or 4 points. PROFESSOR ZIMMERMAN.

This course supplements *Education 261 KE* with supervised observation and practical experience with children and high school students who have speech problems. F 4-5:15 (children); F 6-7:15 (high school students).

**Education 261 K. Speech Pathology. Spring Session.** 3 points. PROFESSOR ZIMMERMAN and special lecturers.

Consideration of disorders of articulation, phonation, rhythm, and symbolization: classification, methods of diagnosis, and therapy.

Prerequisite: *Education 261 KE*. F 7:30-9:10 p.m.

**DRAMA**

The work of English majors specializing in drama involves the Drama Workshop courses 1, 2; 3, 4 (which combine academic and technical work); the courses in dramatic literature (*Courses 53 through 62*); and *Dramatic Writing 13, 14*. See page 39 for related courses in other departments.

The college dramatic club, *Wigs and Cues*, the *Gilbert and Sullivan Society*, and the campus radio station, WKCR, offer additional opportunities for practical experience.

Advanced students who have had or are taking *Drama Workshop 1, 2; 3, 4*, may on written permission of Professor Greet apply for one of the technical courses in the Columbia School of Dramatic Arts which are listed below. There will be no additional fee for English majors at Barnard who are specializing in drama or speech, but points of credit in technical courses must be paired with an equal number in academic courses in dramatic literature.

**Drama Workshop 1, 2** (same as English 59, 60). 6 or 8 points. PROFESSOR HOUGHTON, MRS. URMY, MESSRS. SWEET and CAMPBELL, and others.

Four or more plays, representative of important periods or trends in drama, will be considered from many points of view theatrical and literary. Laboratory use of the Barnard theater, special lecturers, collateral reading and study of New York productions, museum projects. Recommended for advanced students who are specially interested in the theater and have shown competence in some phase of dramatic work: acting, directing, writing, designing, stage-history.

In 1956-57 the group will be divided into two classes: 1, 2 and 3, 4.

Registration is limited. Requisite: preceding or parallel, 6 points in drama courses 53 to 62 or the equivalent in a foreign language, and the written permission of PROFESSOR GREET. M W F 1-5. [10] Theater.

## BARNARD COLLEGE

### \*F.A. Acting 105–106. Theater Reading. 4 points. MISS KELLER.

Practice in theater reading for the development of vocal power, flexibility, and variety. Individual and group practice in the interpretation of lines and scenes.

F 12:55–2:35. Brander Matthews Auditorium.

### \*F.A. Acting R105–R106. Theater Reading. 4 points. MISS KELLER.

Same as 105–106, starting in Spring Session. M 6:35–8:15. Brander Matthews Auditorium.

### \*F.A. Acting 107–108. The Study of Roles and Scenes. 4 points. PROFESSOR SMITH.

Th. 2:45–4:25. Brander Matthews Auditorium.

### \*F.A. Play Directing 105–106. Rehearsal. 6 points. MR. SCHNITZER.

M W F 10–11:40. Brander Matthews Auditorium.

### \*F.A. Stagecraft 5. Stage Lighting. 2 points. MISS BURKHALTER.

T 6:35–8:15. Brander Matthews Auditorium.

### \*F.A. Stagecraft 109–110. Stage Design. 4 points. MR. THOMPSON.

An advanced course in stage design. Limited to fifteen students.

W 7–10 p.m. 506 W Avery.

## LANGUAGE AND LITERATURE

Courses marked thus § will count toward the literature part of the humanities requirement.

### 36. The History of English Literature. 3 points. PROFESSOR MCGUIRE.

Books, authors, and their times. A chronological survey of major and minor writers, set against a background of social, economic, and political history. M W F 2. [5] 408 Barnard.

### §37, §38. Introduction to English Literature. 6 points. DR. BOVIE and MR. PATTERSON.

A general view of the scope and variety of English literature through a study of selected writers and works, from the beginnings to the present. *Winter Session:* Beowulf through Dryden. *Spring Session:* 1700 to the present. [12]

Section I M W F 9. 408 Barnard. Section II M W F 11. 408 Barnard.

### [39, 40. The Tradition of the Humanities (same as Classical Civilization 87, 88). 6 points. DR. BOVIE.

*Not given in 1955–56.]*

### 42. Anglo-Saxon Language and Literature (for undergraduates). 3 points. PROFESSOR GREET. T Th 9. [6] 402 Barnard.

### 43. Chaucer. 3 points. PROFESSOR GREET. T Th 10:35–11:50. [8] 408 Barnard.

### R43. Chaucer. 3 points. PROFESSOR GREET.

The equivalent of Course 43, but given in Spring Session. T Th 10:35–11:50 [8] 408 Barnard.

### 45. Studies in Medieval English. 3 points. PROFESSOR GREET.

Permission is required. T 3:35–4:50. [0] 402 Barnard.

## ENGLISH

47, 48 (also \*261, 262). **History of the English Language.** 6 points. PROFESSOR GREET.

The scholarly background required for studies in English usage, oral and written. After an introduction to phonetics, the class considers words, pronunciation, and structure in the light of literary history and linguistic science. W F 9. [1] 511 Philosophy.

**§R53. Development of English Drama from its Beginnings to 1642.** 3 points. PROFESSOR HOOK.

Miracle plays, moralities, and interludes; Elizabethan, Jacobean, and Caroline drama. M W F 10. [2] 409 Barnard.

**§R54. English Drama from the Restoration to the End of the Nineteenth Century.** 3 points. PROFESSOR HOOK.

The comedy of manners, heroic tragedy, sentimental comedy and tragedy, ballad opera, bourgeois comedy, romantic tragedy, and melodrama. M W F 10. [2] 409 Barnard.

**[55. The Development of the Theater.]** 3 points. MISS GILDER.

A study of changing forms in the theater and in dramatic literature, from ancient Greek times to the modern theater. Papers required.

*Not given in 1955–56.]*

**58. Drama from Ibsen to the Present.** 2 points. DR. ULANOV.

Reading of English, continental, and American plays, of which the most important will be analyzed in class; playgoing, on and off Broadway. T 3:35–5:25. [13] 408 Barnard.

**59, 60. Studies in Drama.** 6 or 8 points. PROFESSOR HOUGHTON.

Given in connection with *Drama Workshop 1, 2; 3, 4.* See page 49.

**§61. Shakespeare and the Elizabethan Mind.** 3 points. PROFESSOR ROBERTSON.

An introduction to the meaning, scope, and greatness of Shakespeare. M W F 11. [3] Theater.

**§62. Studies in Shakespeare.** 3 points. PROFESSOR ROBERTSON.

Prerequisite: Course 61 and the written permission of the instructor. W 3–5. [10] 406 Barnard.

**63. Literary Criticism.** 3 points. PROFESSOR COLIE.

The chief individual talents and the major traditions in literary criticism, from Plato to the present. Practical experience through frequent short critical papers and one long critical essay. M W F 11. [3] 407 Barnard.

**§64. Development of English Prose.** 3 points. PROFESSOR ROSENBERG.

A critical and analytical study of the major prose traditions in English. Frequent short papers and one long essay. M W F 9. [1] 407 Barnard.

**§65. Spenser and Sixteenth Century Poetry.** 3 points. PROFESSOR ROSENBERG.

Study of the chief non-dramatic poets with some reading of prose works. M W F 9. [1] 407 Barnard.

**§66. Milton and Seventeenth Century Poetry.** 3 points. PROFESSOR COLIE.

The complete poetical works of Milton, with supplementary readings. Some study of Donne and the Metaphysicals. M W F 11. [3] Theater.

## BARNARD COLLEGE

### §67, §68. English Literature of the Eighteenth Century. 6 points. PROFESSOR CLIFFORD and DR. GARAI.

The principal authors from Dryden to the end of the eighteenth century, studied in relation to the thought of the period. *Winter Session*: Dryden, Swift, and Pope. *Spring Session*: Dr. Johnson and his circle, and the pre-Romantics. T Th 11, Th 1. On Tuesday and Thursday morning the class will attend the lectures of \*English 213, 214. 506 Butler. The Thursday afternoon session will be a discussion group at 406 Barnard. [8]

### §69, §70. The English Novel. 6 points. PROFESSOR BARACH.

*Winter Session*: Eighteenth and twentieth century pioneers such as DeFoe, Fielding, and Sterne; Joyce, Lawrence, and Woolf. *Spring Session*: The nineteenth century, Jane Austen to Conrad. T Th 2:10–3:25. [9] 408 Barnard.

### §71. English Literature of the Romantic Period. 3 points. PROFESSOR McGUIRE.

A study of the poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats in the light of contemporaneous theories of poetry and of present-day criticism. M W F 2. [5] 408 Barnard.

### §74. Victorian Poets. 3 points. PROFESSOR ROBERTSON.

A study of poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne. M W F 10. [2] 408 Barnard.

### §75. The Victorian Age in Literature. 3 points. PROFESSOR ROBERTSON.

Literary expression of tendencies in the thought of the period—social, scientific, religious and artistic. Among the writers considered are Carlyle, Mill, Arnold, Ruskin, and Pater. M W F 10. [2] 408 Barnard.

### §79, §80. American Literature from the Colonial Period to the Present Day. 6 points. PROFESSOR TILTON.

*Winter Session*: Jonathan Edwards to Walt Whitman. *Spring Session*: Mark Twain to William Faulkner. T Th 2:10–3:25. [9] 301 Barnard.

### §81. Major American Writers. 3 points. PROFESSOR KOUWENHOVEN.

Emerson, Hawthorne, Melville, Whitman, and Mark Twain.

Prerequisite: Course 79 or 80 or written permission of the instructor. M W F 3. [10] 411 Barnard.

### §82. American Vernacular Literature and Art. 3 points. PROFESSOR KOUWENHOVEN.

An approach to the study of popular culture in a machine-age democracy. The forms of vernacular literature (including dime novels, folk tales, and comics) and the vernacular tradition in architecture, music, painting, and other arts.

Prerequisite: A college course in American literature, American history, or American art. M W F 3. [10] 411 Barnard.

### §83. Modern Literature and the Allied Arts. 3 points. DR. ULANOV.

The focus and the vocabulary of the modern artist, examined and defined first in terms of literature, and then through a comparison with painting, music, the dance, the theater, and the motion picture. Gallery trips and record-listening.

Written permission of the instructor required. M W F. 2. [5] 410 Barnard.

### §85. America in Fiction. 3 points. PROFESSOR LEARY.

Readings in DeFoe, Thackeray, Dickens, Cooper, Mark Twain, Howells, Ander-

## FINE ARTS

son, Cather, Faulkner, and other novelists who have answered Crèvecoeur's query, "What is an American, this new man?" M W 2. [5] 407 Barnard.

[86. **The American Romantics and their European Sources, 1797–1855.** 3 points. PROFESSOR TILTON.]

*Not given in 1955–56.]*

The relationship between American and European literature, with special emphasis on American interest in German writers.

Prerequisite: Course 71 or 79. Ordinarily given in alternate years with Course 88.

§87 (also \*273B). **The New England Group, 1820–1870.** 3 points. PROFESSOR TILTON. T Th 4. [13] 409 Barnard.

**88. American Realistic Fiction and its European Sources.** 3 points. PROFESSOR TILTON.

Ordinarily given in alternate years with Course 86. T Th 9:10–10:25. [6] 407 Barnard.

### SEMINARS FOR MAJORS

**91, 92. Special Reading.** 6 points. PROFESSORS MC GUIRE and ROSENBERG.

The student plans and follows a program of reading which will supplement and co-ordinate her work in other courses.

Registration is limited. T 3:35–4:50. [0] 406, 411 Barnard.

**93, 94. The English Conference.** 2 points. PROFESSOR GREET and members of the department.

The general subject is the practice of literature and drama. Members of the department will be joined by distinguished authors, critics, actors, and directors.

This course is required of all English majors in both junior and senior years. It is not open to other students. Th 3:35–4:25. [0] College Parlor.

**95, 96. Senior Thesis.** 6 points. PROFESSOR ROBERTSON and members of the department.

The writing of a long essay under the supervision of a member of the department.

Open only to a small group of senior majors on invitation of the department. Hours for consultation to be arranged. [0]

## FINE ARTS

MARION LAWRENCE, Ph.D., Professor of Fine Arts  
*Executive Officer*

JULIUS S. HELD, Ph.D., Professor of Fine Arts

<sup>1</sup>JANE GASTON-MAHLER, Ph.D., Associate Professor of Fine Arts

<sup>2</sup>MARIANNA BYRAM, A.M., Assistant Professor of Fine Arts

EDITH PORADA, Ph.D., Visiting Assistant Professor of Fine Arts

SAMUEL HUNTER, A.B., Lecturer in Fine Arts

ELIZABETH McCausland, A.M., Lecturer in Fine Arts

ILENE ELEANOR HAERING, A.B., Assistant in Fine Arts

MOLLY TEASDALE, A.B., Studio Assistant in Fine Arts

<sup>1</sup> Absent on leave, 1955–56.

<sup>2</sup> Absent on leave, Spring Session.

# BARNARD COLLEGE

**A major in fine arts** is designed to acquaint the student with the principal achievements in the visual arts of painting, sculpture and architecture of both the past and the present. Since art is an important part of our cultural heritage, a study of its history contributes greatly to our understanding of man's development and his higher aspirations.

Courses are generally of the lecture type, conducted with lantern slides and occasional class-room discussion. Some meet for the third hour in small groups for the closer examination of illustrative material and informal discussions. Trips to the museums are an important part of class instruction, and in all courses, full advantage is taken of the artistic resources of New York City.

While studio techniques are taught in only one course (*Fine Arts 1-2*), students are encouraged to take any course for which they qualify in the School of Painting and Sculpture of Columbia University. See page 57 for regulations governing these courses.

**A student majoring in fine arts** will be required to take the seminar (97-98) and courses in the following fields: ancient, medieval, renaissance, baroque and modern. The major student upon her graduation should have acquired both a background of specific knowledge and methods of dealing with new material which will equip her to start graduate work, museum or teaching apprenticeship, or writing in the art field.

**Other fields:** A reading knowledge of French, German, or Italian is highly desirable. Students who expect to do graduate work must have German and one other modern language. Courses in history, literature, languages, philosophy, religion, and other fields afford interesting correlations and should be chosen in consultation with the major adviser.

**The major examination** is in two sections of three hours each and is designed to test (1) the student's general knowledge of important artists and movements in the main fields; (2) her ability to analyze style; (3) her competence in one special and limited field chosen by the student in consultation with her major adviser and in which she has been working in the Senior Seminar.

## **1-2. Introduction to the Study of Fine Arts.** 4, or with laboratory, 6 points. PROFESSOR LAWRENCE.

A general study of aesthetic problems in the visual arts as preparation for a more detailed study. This will include a discussion of the major problems of artistic expression and their solution in the fields of architecture, sculpture, and painting, together with a consideration of the art as characteristic of certain great periods of European culture. Short papers will be assigned on buildings, sculpture, and paintings in New York City.

**Laboratory work:** drawing, sketching from the living model, water color, tempera, clay modelling, and carving. Two hours of class instruction and one of studio practice, counting one point a term.

Intended primarily for freshmen and sophomores but open to juniors and seniors on written permission of the department. T Th 10. [7] 204 Milbank. Laboratory:

- |            |                |              |
|------------|----------------|--------------|
| Section I  | Th 12:30-2:20. | 419 Barnard. |
| Section II | Th 2:30-4:20.  | 419 Barnard. |

## \***43 (formerly 41). Introduction to Ancient Art.** 3 points. PROFESSOR HARRISON.

After a brief discussion of the stone ages, the architecture, sculpture, and painting of the preclassical civilizations of the eastern Mediterranean—Egypt, Mesopo-

tamia, and the Aegean—and of the classical styles of Greece and of Rome are analyzed in detail, with some reference to their Persian and Etruscan offshoots.

Open to all except freshmen. *History 5, 6* is recommended as a parallel course. M W 11-12:15. Visits to the Metropolitan Museum of Art, F 1, or at hours to be announced.

**51, 52. Medieval Art.** 6 points. PROFESSOR LAWRENCE.

The origin and development of Christian art is traced from its beginnings in the late antique world in Italy and the eastern Mediterranean countries through the early Christian and Byzantine periods. The Celtic, Carolingian and Romanesque styles of western Europe are studied in the first term with the emphasis on the development of style and iconography particularly as illustrated by mosaics and illuminated manuscripts. The second term starts with the Romanesque sculpture of France. Special emphasis is given to Romanesque architecture of Italy and France and Gothic architecture, sculpture, and painting. The course ends with the introduction of the Italian Renaissance into France.

Open to juniors and seniors. *History 7, 8* is recommended as a parallel course.

*Course 51* is prerequisite to *Course 52*. M W 2. Third hour and visits to the Metropolitan Museum of Art, the Pierpont Morgan Library, and the Cloisters, F 2, or at hours to be arranged. [5] 204 Milbank.

**61. European Architecture from the Renaissance through the Rococo Style.** 3 points. PROFESSOR BYRAM.

Starting with the Italian Renaissance the course will cover the major developments in European architecture from the fifteenth century through the Rococo style of the eighteenth century. One or two term examinations and possibly one or two short papers.

Open to all except freshmen. M W F 10. [2] 204 Milbank.

**63. European Sculpture, Renaissance and Modern.** 3 points. PROFESSOR BYRAM.

Starting with the Italian Renaissance the course will cover the important developments in European sculpture from the Pisani into the twentieth century. One or two term examinations and possibly one or two short papers.

Open to all except freshmen. M W F 1. [4] 204 Milbank.

**65. Renaissance Painting in Northern Europe.** 3 points. PROFESSOR BYRAM.

The history and development of painting in the Flemish, Dutch, French, and German schools from the end of the Gothic period through the sixteenth century. Emphasis will be put on Van Eyck, Van der Weyden, Bosch, Bruegel, Duerer, and Gruenewald.

Open to all except freshmen. T Th 2 and a third hour to be arranged. Visits to the Metropolitan Museum of Art. [9] 204 Milbank.

**66. Italian Renaissance Painting.** 3 points. PROFESSOR HELD.

The stylistic and iconographic development of Italian painting from the thirteenth to the middle of the sixteenth century with detailed study of Giotto, Masaccio, Leonardo, Raphael, Michelangelo, and Titian.

Open to all except freshmen. T Th 2 and a third hour to be arranged. Visits to the Metropolitan Museum of Art. [9] 204 Milbank.

**[R68. Prints and Drawings.]** 3 points. PROFESSOR BYRAM.

*Not given in 1955-56.]*

The history and technique of the graphic arts as illustrated in the work of the

## BARNARD COLLEGE

principal artists from the beginning of the fifteenth century to modern times. One or two term examinations and possibly one or two short papers.

Prerequisite: *Course 65 or 66 or 75, 76.*

### [70. European and American Architecture from the Eighteenth Century into the Twentieth Century. 3 points. PROFESSOR BYRAM.]

*Not given in 1955–56.]*

Starting with the classic Revival of the eighteenth century the first two-thirds of the course will be devoted mainly to France, Germany, and England. The last third of the course will deal with American architecture from the eighteenth century to the present. Open to all except freshmen.

### 75, 76. European Painting since the Renaissance. 6 points. PROFESSOR HELD.

The development of painting in Europe from the sixteenth century to the present. During the first term the painters of the Mannerist and Baroque periods will be studied, among them Michelangelo, Tintoretto, El Greco, Caravaggio, Poussin, Velazquez, Rubens, Rembrandt, Watteau. In the second term the growth of modern art will be traced, beginning with the artists of the French Revolution. The discussion will center on David, Goya, Delacroix, Courbet, Daumier, The Impressionists, Cézanne, Van Gogh, and the various trends of the twentieth century.

Open to all except freshmen. *Course 75 is prerequisite to Course 76 except on written permission of the instructor.* T Th 10:35–11:50. [8] 335 Milbank.

### R77. American Art from Colonial Times to the Armory Show. 3 points. Miss McCausland.

Painting, sculpture and architecture will be studied from their beginnings with the early "face painters," ship's figureheads, inn signs and weather vanes of the colonial period. Then the growth of cities as shown in early prints will be considered, followed by a study of the development of landscape painting, still life, genre, and portraiture in the nineteenth century up to the "New York Realists." The course will end with the introduction in 1913 of the "avant-garde" movements of post-impressionism, cubism, fauvism, etc., from Europe. M W F 1. [4] 204 Milbank.

### 78. Modern European and American Painting. 3 points. MR. HUNTER.

A history of the movements in the painting of the twentieth century from their origins in Post-Impressionism and other painting at the end of the nineteenth century. Special attention will be given to the development of American painting and the impact of these European movements during and after the Armory Show. This course will supplement and complete the necessarily brief treatment in *Course 76.*

Open to all except freshmen. M W 11–12:15 [3] 335 Milbank.

### 81. Masterpieces of Art in the New York Museums. 3 points. PROFESSOR HELD.

Designed to acquaint students with some of the great artistic treasures assembled in New York and to sharpen their aesthetic and historical understanding in front of the originals themselves.

Open only to fine arts majors. Limited to fifteen students. T F 3:30–5. [13]

### 91. Oriental Art. 3 points. PROFESSOR PORADA.

The arts of Persia, India, and Indonesia; temples, palaces, sculpture, miniature painting and frescoes, and minor arts.

Open to all except freshmen. M W 11, F 3 or hours to be arranged. Conferences and visits to the Metropolitan Museum of Art, F 3 or at hours to be arranged. [3] 204 Milbank.

**[92. Oriental Art. 3 points. PROFESSOR GASTON-MAHLER.]**

*Not given in 1955-56.]*

The arts of China and Japan, with attention given to central Asiatic art as it affects these countries. Chinese bronzes, Buddhist art, and the great painting and porcelain of the Sung period will be stressed, while in Japan, Buddhist architecture and sculpture, and the later scrolls, screens, and prints will be studied.

Open to all except freshmen.

**97-98. Seminar for Majors. 6 points. PROFESSOR LAWRENCE.**

A discussion of the basic principles of art history, the tools with which the art historian works and some of his problems. Relations with classic archaeology, primitive art and anthropology, architecture, aesthetics, etc., are discussed by visiting lecturers. Brief oral reports are given by the students on problems of general interest and there is a term paper in the second semester on material in the special field chosen by the student.

Required of all majors in their senior year. Th 3-5. [13] 813 Schermerhorn.

#### TECHNICAL COURSES

Studio courses can count toward the degree only if taken parallel to a theoretical or historical course in fine arts. A maximum of 12 points of studio work may be credited towards the Barnard degree. Junior and senior majors are exempt from special fees.

**\*G.S. Drawing 1-2. The Grammar of Art. 4 points. PROFESSOR MANGRAVITE assisted by MR. DORSAY.**

Drawing and painting. Orientation of the student to art as a language. This foundation course is planned to develop an understanding and appreciation of the principles of creative design as applied to the visual arts. Through personal supervision, the student is guided in the practice of drawing and painting.

*Course 1* is prerequisite to *Course 2*, except on written permission of the instructor. Special fee, \$50 each session and model fee, \$5 each session. East Hall. Section I M Th 1-3. Section II M Th 3-5. Section III T F 9-10:50.

**\*G.S. Drawing 3-4. The Grammar of Art. 4 points. PROFESSOR MANGRAVITE assisted by MR. DORSAY and MR. WYATT.**

A continuation of *Course 1-2*. The elementary principles of three-dimensional drawing and painting are practiced from organic forms and from the human figure. Their proportion, action, character and design are stressed, and the synthesis of drawing and painting emphasized.

Prerequisite: *Course 1-2*, or equivalent experience. Special fee, \$50 each session and model fee, \$5 each session. East Hall.

Section I M Th 10-12. Section II T Th 3-5.

Other studio courses given at Columbia University may be taken by written permission of the Executive Officer of the department. These courses are described in the Announcement of the School of General Studies under Painting and Sculpture.

# BARNARD COLLEGE

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the Executive Officer of the department and the Committee on Programs and Standing of Barnard College. A description of these courses will be found in the Announcement of the Faculty of Philosophy. The following are specifically recommended as suitable for Barnard seniors:

- \***121. Primitive Art and Its Contribution to Modern Art.** 3 points. PROFESSOR WINGERT.
- \***126. Indian Art of the United States and Canada.** 3 points. PROFESSOR WINGERT.
- \***137. Art of the Ancient Near and Middle East.** 3 points. PROFESSOR PORADA.
- \***141. Ancient Architecture.** 3 points. PROFESSOR HARRISON.
- \***146. Roman Art.** 3 points. PROFESSOR SWIFT.
- \***R156A. Romanesque Sculpture.** 3 points. PROFESSOR SCHAPIRO.
- \***163. Florentine Painting of the Early Renaissance.** 3 points. PROFESSOR DAVIS.
- \***167. Painting and Sculpture of the 17th and 18th Centuries in Italy.** 3 points. PROFESSOR WITTKOWER.
- \***169A. Dutch Painting of the 17th Century.** 3 points. PROFESSOR HELD.
- \***175. Modern Painting, 1848–1900.** 3 points. PROFESSOR SCHAPIRO.
- \***176. Modern Painting since 1900.** 3 points. PROFESSOR SCHAPIRO.
- \***196. Masterpieces of Chinese Painting.** 3 points. MR. WANG.

## FRENCH

LEROY BREUNIG, Ph.D., Associate Professor of French  
*Executive Officer*

ANDRÉ MESNARD, A.M., Associate Professor of French

ISABELLE DE WYZEWA, Ph.D., Associate Professor of French

HELEN PHELPS BAILEY, Ph.D., Associate Professor of French

RENÉE J. KOHN, Agrégée de l'Université, Assistant Professor of French

HELEN M. CARLSON, A.M., Associate in French

TATIANA GREENE, A.M., Instructor in French

LINETTE W. BRUGMANS, A.M., Instructor in French

ALBA-MARIE FAZIA, Ph.D., Instructor in French

ANTOINETTE NOEL HOFFHERR, A.M., Lecturer in French

<sup>1</sup>JEANNE VARNEY PLEASANTS, D. d'Univ., Associate Professor of French

A major in French has two main objectives: (*a*) to perfect fluency in the written and the spoken language, and (*b*) to develop appreciation of the literature and culture of France.

<sup>1</sup>Officer of Columbia University giving instruction in Barnard College.

## FRENCH

A student majoring in French must take an advanced composition course, 13, 14; an advanced oral course, 17, 18 or 41-42; and three literature courses in addition to French 7-8. The Special Reading Seminar, 37-38, may count as one of the literature courses and is particularly recommended for senior majors. Seniors with honor grades may elect the Senior Thesis, 39-40, as one of their literature courses.

Other fields: Courses in history, fine arts, or other fields which vary with the interest of the student should be elected after consultation with the department.

The major examination consists of a six-hour section, written mainly in French, followed by a half-hour oral section.

### LANGUAGE COURSES

**1-2. Introductory Full-Year Course.** 8 points. PROFESSOR MESNARD and MRS. BRUGMANS.

Grammar, reading, composition. [14]

Section I M T W Th F 9. 301 Barnard.

Section II M T W Th F 11. 321 Milbank.

**3, 4. Intermediate Course.** 6 points. MRS. GREENE, MRS. HOFFHERR, and DR. FAZIA.

Review of grammar and syntax. Translation, reading, oral practice, free composition.

Prerequisite: *Course 1-2* or two years of high school French. [14]

Section I M W F 1. 321 Milbank.

Section II M W F 2. 321 Milbank.

Section III M W F 3. 321 Milbank.

Section IV T Th 10:35-11:50. 309 Milbank.

**R4. Intermediate Course. Part II.** 3 points. MRS. GREENE.

The equivalent of *Course 4* but given in the Winter Session.

Prerequisite: *Course 3* or three years of high school French. M W F 10. [14] 321 Milbank.

**5x, 6x. Practical Course in Sight Reading and Prepared Translation.** 6 points. MISS CARLSON, MRS. GREENE, and DR. FAZIA.

Texts chosen to develop ease and accuracy in handling a variety of styles and subjects: historical, philosophical, artistic, scientific, as well as literary prose. Especially intended for students wishing to prepare for the foreign language test in French and majors in other subjects who need to understand and translate French texts for reference purposes.

Prerequisite: *Course 3, 4* or three years of high school French. [14]

Section I M W F 9. 309 Milbank.

Section II M W F 10. 4 Milbank.

Section III M W F 2. 301 Barnard.

Section IV T Th 10:35-11:50. 4 Milbank.

**5, 6. Discussion and Composition Based on Readings in Modern French Literature with Occasional Practice in Translation.** 6 points. PROFESSORS DE WYZEWA and KOHN, and MRS. BRUGMANS.

A study based on prose and poetry of the nineteenth and twentieth centuries.

## BARNARD COLLEGE

Discussion in French of texts read. Free composition and grammar review. Practice in both intensive and extensive reading.

Prerequisite: *Course 3, 4 or three years of high school French.* [14]

Section I M W F 9. 4 Milbank.

Section II M W F 11. 207 Milbank.

Section III M W F 1. 335 Milbank.

### R5. Conversation and Composition Based on Readings in French Literature with Occasional Practice in Translation. 3 points. MRS. GREENE.

The equivalent of *Course 5* but given in the Spring Session.

Prerequisite: *Course 4 or R4.* M W F 10. [2] 321 Milbank.

### 11, 12. Review of Grammar and Composition.<sup>1</sup> 4 points. PROFESSOR MESNARD.

Intended primarily for those taking literature courses who desire a review of grammar and syntax. There will be translation from English into French and weekly compositions.

Open to students of all classes on written permission of the instructor. Limited to 10 students. T Th 9. [6] 13 Milbank.

### 13, 14. Advanced Composition.<sup>1</sup> 4 points. PROFESSOR KOHN.

Translation from French into English and from English into French. Composition, preparation of critical essays and articles on a variety of subjects assigned.

Open only on written permission of the instructor. M W 2. [5] 39 Milbank.

### 15–16. Oral French, Intermediate Full-Year Course.<sup>1</sup> 4 points. MRS. BRUGMANS.

Pronunciation, recitation, conversation based on selected readings.

Prerequisite: *Course 5* or the equivalent and the written permission of the department. Limited to 12 students. T Th 11, and a conference period to be arranged. [8] 12 Milbank.

### [17, 18. French Phonetics.<sup>1</sup> 6 points. PROFESSOR PLEASANTS.

*Not given in 1955–56.]*

Study of spoken French: conversational and literary; aural-oral practice supplemented by analysis of the structure (content and form) of selected passages from French literature.

Open to students on written permission of the instructor. Limited to 20 students.

### 41–42. Oral French, Advanced Full-Year Course.<sup>1</sup> PROFESSOR KOHN.

Discussion based on contemporary French readings, reports on assigned subjects, practice in the recitation of lyric prose and poetry.

Prerequisite: *Course 15–16* or the equivalent and the written permission of the instructor. Limited to 10 students. M W 3. [10] 211 Milbank.

## LITERATURE COURSES

The ability to use French both in speaking and in writing is a general requirement for all literature courses.

Students who have not taken *Course 7, 8* or the equivalent must receive written permission from the instructor in order to take the more advanced literature courses beginning with 21, 22.

<sup>1</sup> Conducted entirely in French.

## FRENCH

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken, and a grade of C— or higher is obtained.

**§7, §8. Masterpieces of Literature from the Middle Ages to the Twentieth Century.** 6 points. PROFESSORS DE WYZEWA and BAILEY, MRS. HOFFHERR and DR. FAZIA.

Lectures in French on the history of French literature, analysis of texts, recitations, discussions. Essays and reports on outside reading.

*Winter Session:* Readings of masterpieces from *La Chanson de Roland* through Molière. *Spring Session:* Readings from Voltaire through Proust.

Prerequisites: The course presupposes the ability to comprehend written and spoken French with ease and to speak and write moderately well. The normal prerequisite is: *Course 5x, 6x; Course 5, 6; Course 4* with a grade of at least B; or three years of high school French and the written permission of the department. [14]

Section I	M W F 10.	311 Milbank.
Section II	M W F 11.	203 Milbank.
Section III	M W F 1.	319 Milbank.
Section IV	M W F 2.	335 Milbank.

**§9, §10. Introduction to French Civilization.** 6 points. PROFESSOR MESNARD.

The social, artistic, literary and scientific activities of the French people in the formation of their national life.

Prerequisites: The course presupposes the ability to comprehend written and spoken French with ease and to speak and write moderately well. The normal prerequisite is: *Course 5x, 6x; Course 5, 6; Course 4* with a grade of at least B; or three years of high school French and the written permission of the department. T Th 10, W 3. [7] 207 Milbank.

**§21, §22. French Literature in the Middle Ages and the Renaissance.** 6 points. PROFESSOR KOHN.

Study of selected works of literature with reference to the history and art of the respective periods. M W F 11. [3] 13 Milbank.

**§23. The French Classical Theater.** 3 or 4 points. PROFESSOR BREUNIG.

The principles of French classical tragedy and comedy. Detailed study of masterpieces of Corneille, Racine, Molière, Marivaux and Beaumarchais. M W F 10. [2] 12 Milbank.

**§24. French Prose and Poetry in the Seventeenth Century.** 3 or 4 points. PROFESSOR BREUNIG.

A study of classical prose in the works of Descartes, Pascal, Bossuet and the "écrivains mondains." The poetry of Malherbe, LaFontaine and Boileau. M W F 10. [2] 12 Milbank.

**[§25, §26. French Literature in the Eighteenth Century.]** 6 points. PROFESSOR DE WYZEWA.

*Not given in 1955–56.]*

The chief essayists, novelists, and dramatists of the period in their most significant works and letters.

**§27, §28. French Literature in the Nineteenth Century.** 6 or 8 points. PROFESSOR BAILEY.

## BARNARD COLLEGE

Representative works of the principal authors and literary movements from early Romanticism through Symbolism. *Winter Session:* Poetry. *Spring Session:* Fiction and drama. M W F 9. [1] 321 Milbank.

**§30. French Theater in the Twentieth Century.** 2 or 3 points. PROFESSOR BREUNIG.

The major dramatists of the last fifty years. T Th 9. [6] 12 Milbank.

**§31, §32. History of the French Novel.** 6 points. PROFESSOR DE WYZEWA.

A study of the development of French culture, thought, ideals, and literary technique as reflected in the most representative novels of each period, from the Middle Ages to the present. T Th 10, F 3. [7] 12 Milbank.

[**§33, §34. History of French Drama.** 4 or 6 points. PROFESSOR BREUNIG.

*Not given in 1955–56.]*

General survey of the development of the French drama from its origins to the present time; representative plays from each period.

**37–38. Special Reading Seminar.** 4 or 6 points. PROFESSOR BAILEY.

Intended primarily for French majors. Students will be given a program of supervised reading which will help them to coordinate their work in other French courses. [0]

**39–40. Senior Thesis.** 4 points. PROFESSOR BREUNIG and members of the department.

Research into a precise topic of French literature and the preparation of a long essay.

Open to seniors with honor grades. The essay satisfies in part the major examination requirement. Hours for consultation to be arranged. [0]

**60. Colloquium on France in the Twentieth Century.** 3 points. DR. WEINER and PROFESSOR BREUNIG.

A detailed study of modern France with emphasis on political and cultural issues. Extensive readings in the history and literature of the period.

Prerequisites: *History 1–2* and a reading knowledge of French. Written permission of the instructor required. W 4–6. [15] 209 Milbank.

**125. Contemporary French Poetry.** 3 points. PROFESSOR BREUNIG.

French poetry from Symbolism to the present with analyses of significant poems since 1885. W 4:35–6:15 [14] 4 Milbank.

## GEOLOGY AND GEOGRAPHY

HENRY S. SHARP, Ph.D., Professor of Geology  
*Executive Officer*

LEONARD ZOBLER, Ph.D., Assistant Professor of Geography

<sup>1</sup>JOHN IMBRIE, Ph.D., Assistant Professor of Geology

JANE LANCASTER, A.M., Assistant in Geology

**Geology.** A major in geology is designed to acquaint the student with the basic divisions of the science; to give them a solid fund of knowledge concerning the struc-

<sup>1</sup> Officer of Columbia University giving instruction in Barnard College.

## GEOLOGY AND GEOGRAPHY

ture and history of the earth, of the materials composing it, of the record of evolving life contained within its crust, and of the landforms developed upon its surface. Students will be eager for first-hand outdoor acquaintance with geological phenomena, and will wish to acquire some knowledge of the methods of geological research and something of the professional geologist's point of view toward the earth.

A student majoring in geology will, after the beginning earth science course, take Courses A11-A12, 15, 19, 27, and 30 in partial fulfillment of the major requirement. The department will encourage field experience in some such course as *Geology of the Rocky Mountains*, offered in Wyoming each summer by Columbia University. Any remaining points required for the major may be selected from the offerings of this department and the Columbia Department of Geology. A student planning to enter graduate school will take courses in related fields of science; others may plan their science programs in accordance with their needs. All geology majors are urged to take well-balanced programs in the humanities and social sciences and to keep their concentration in this department at a reasonable minimum.

The major examination in geology will consist of the Graduate Record Examination and a three-hour written examination.

**Geography.** The function of modern geography appears to be an integration of the natural and social sciences around a framework of earth regions. In this way, each area of the earth, whether developed or undeveloped, densely or sparsely populated, can be analyzed, and its present and potential place in the modern world can be indicated. Geographers are thus interested in all the varied natural resources of the earth and in the physical environment; they are equally interested in the many ways in which man has or will use these resources in his response to environment.

A student majoring in geography will gain an understanding of the first of these themes from certain required courses in physical geography and geology; of the second, from certain essential courses in geography and from courses in the social sciences, related to geography. Further integration of the two themes will be sought in a senior seminar. In addition, majors are encouraged to take a liberal selection of courses in the humanities.

The major examination in geography will consist of a six-hour written examination.

**Natural Resources.** A joint major in Natural Resources is offered by the Departments of Botany and Geology-Geography. See Interdepartmental Majors, page 29.

### GEOGRAPHY

#### 1, 2. Physical Geography. 6 points. PROFESSOR ZOBLER.

These courses are designed to give the general student an understanding of those aspects of the physical environment which are a part of daily experience; they should be of especial value to prospective teachers. In the first term, the solar system, the size and shape of the earth, latitude and longitude, cartography, the use of maps, earth-sun relations, time, moon and tides, weather and climate, will be discussed. Course 2 is a continuation of Course 1 but may be taken separately; in it will be considered the earth's crust, rocks and minerals, origin of landforms, hydrology, formation of soils, genesis and distribution of mineral resources.

These courses satisfy the non-laboratory physical science requirement. Limited to 30 students. T Th 10:35-11:50. [7] 212 Milbank.

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### **3, 4. World Regional Geography.** 6 points. PROFESSOR ZOBLER.

A survey of the distribution of world agricultural and mineral resources, of industry, and population. *Course 3* covers world agricultural-climatic regions and considers problems of resource development, population pressure, and economic trends in the tropical, temperate, and polar regions. Emphasis upon the interaction of physical and cultural environments. Problems of the under-developed areas. *Course 4* covers the distribution of mineral fuels and water power, mineral resources, industrial development, centers of population, world trade routes, and manufacturing regions. It provides a basis for assessing the potential for industrial and commercial development in various areas of the world. *Course 3* is a prerequisite for *Course 4*.

*Courses 3 and 4 together satisfy the contemporary society requirement.* M W F  
11. [3] 212 Milbank.

### **[5. The Physical and Economic Structure of Europe.]** 3 points.

*Not given in 1955–56.]*

A study of the position, climate, relief, and natural resources of Europe and the economic development of its constituent countries. This course should prove of value to students of European history and government or those otherwise interested in the continent.

### **[7. Principles of Political Geography.]** 3 points.

*Not given in 1955–56.]*

A study of the basic principles of political geography; readings and discussion of the standard works in the field. Applications of the principles by examination of critical areas of the world.

Given in alternate years.

### **12. Conservation of Natural Resources.** 3 points. PROFESSOR ZOBLER.

A technical study of renewable and non-renewable material resources; consumption trends and conservation measures will be evaluated. Soil and water conservation, minerals, forests, and fisheries. The interplay of physical, economic, and political factors will be considered. Case studies of such multi-purpose projects as TVA.

One-day field trip and report are required.

Prerequisite: A year of geography or geology or permission of the instructor.  
M W F 2. [5] 212 Milbank.

### **15. Regional Geography of the United States.** 3 points. PROFESSOR ZOBLER.

A regional study of the distribution of natural resources, soils, mineral and organic raw materials, climate, and landforms and their impact on the pattern of economic activity in the United States. Emphasis is placed upon the interaction between the physical and cultural environment and upon the contribution of each region to national output.

This course fulfills in part the contemporary society requirement. M W F 2.  
[5] 212 Milbank.

### **[17. Cartography.]** 3 points.

*Not given in 1955–56.]*

Principles governing choice of projection, scale, and grid in map making; methods of depicting relief; use of aerial photographs; evaluation of source material.

Prerequisite: One year of geology or geography.

## GEOLOGY AND GEOGRAPHY

### GEOLOGY

#### 1. Physical Geology. 4 points. PROFESSOR SHARP and MISS LANCASTER.

Courses 1 and 2 are planned to give students knowledge of the earth as the most important physical factor in their background. Course 1 covers the composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. The laboratory includes study of common rocks and minerals, and intensive study of contour maps as means of depicting topography. Course 1 makes a good unit for students taking other sciences and wishing to gain some knowledge of the content of geology.

With Course 2 it satisfies the laboratory science requirement. Lec. T Th 11 and Th 1. Lab. (2 hours) T 9-11; T 2-4; W 3-5; Th 2-4. [8] Theater.

#### 2. Historical Geology. 4 points. PROFESSOR SHARP and MISS LANCASTER.

Important steps in the history of the earth and of the life upon it from the beginning to modern times are emphasized. The laboratory and assigned work include a visit to the Planetarium, study of invertebrate fossils and of geologic maps and structures, museum trips for the study of vertebrate fossils, short field trips, and, if conditions permit, a required Saturday field trip.

Prerequisite: Course 1. Lec. T Th 11 and Th 1. Lab. (2 hours) T 9-11; T 2-4; W 3-5; Th 2-4. [8] Theater.

#### 1a. Physical Geology and Man. 3 points. PROFESSOR IMBRIE.

Lectures and demonstrations upon the composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. For students wishing a broad knowledge of the earth as the most important factor in their background; the constant influence of geologic factors upon man's varied activities will be emphasized. Students will become acquainted with the most common rocks and minerals and will learn to use contour maps.

To follow or parallel a laboratory science. With Course 2a it satisfies the non-laboratory science requirement. M W F 9. [1] 315 Milbank.

#### 2a. Historical Geology and Man. 3 points. PROFESSOR IMBRIE.

Important steps in the history of the earth and of the life upon it culminating in the appearance of man; discussion of some great problems of geology and their impact upon man's thought; the occurrence and origin of petroleum and coal as an economic aspect of geology; the influence of geologic factors upon man is emphasized. Some outdoor classes for discussion of geologic features on the campus or in adjacent parks, and assignments of independent work at the American Museum of Natural History.

Prerequisite: Course 1 or 1a. With Course 1a it satisfies the non-laboratory science requirement. M W F 9. [1] 315 Milbank.

#### \*A11-A12. Elements of Mineralogy and Lithology. 6 points. PROFESSOR HOLMES.

The sight recognition and uses of the common minerals and rocks and an introduction to the microscopic identification of minerals. Emphasis on minerals of economic importance and of widespread occurrence. T Th 11 and T or W 2-4. 417 Schermerhorn.

#### [15. Paleontology. 3 points.

Not given in 1955-56.]

The study of selected fossil specimens from all major geologic epochs and from most divisions of the plant and animal kingdoms. The principles of evolution and

## BARNARD COLLEGE

scientific nomenclature and the development of man's knowledge of plants and animals of the past.

### [19. Structural Geology. 3 points. PROFESSOR SHARP.

*Not given in 1955–56.]*

Lectures, readings, and problems on folds, faults, and other geologic structures, and on geologic maps and sections. One or more voluntary field trips.

Prerequisite: *Courses 1 and 2 or the equivalent. Courses 19 and 27 are ordinarily given in alternate years.*

### R26. Geomorphology of Europe. 3 points. PROFESSOR SHARP.

Lectures, map study, and readings on the topographic regions of Europe. This course is intended for students interested in the regional aspects of geology and geography and should also be of value to students interested in any aspect of European civilization or travel.

Prerequisite: *Geology 1, 2, or 1a, 2a, or Geography 1, 2; may be taken concurrently with 2. With the instructor's permission juniors and seniors may take Course 26 without Course 2.* M W F 9. [1] 212 Milbank.

### 27. The Origin of Landforms. 3 points. PROFESSOR SHARP.

Lectures, map study, and readings on the principles of geomorphology. The origin and evolution of surface features of the earth as controlled by the interaction between geologic structures and erosional processes. One or more voluntary field trips.

Prerequisite: *Courses 1 and 2 or the equivalent. Courses 19 and 27 are ordinarily given in alternate years.* Lec. T Th 9. Lab. T 3–5. [6] 212 Milbank.

### 28E. (also \*Geology 132.) Geomorphology of the Eastern United States. 3 points. PROFESSOR SHARP.

Lectures, map study, and readings on the geomorphic divisions of the eastern United States. This course should be of value to students majoring in economics, government, history, the natural sciences, and to others wishing to understand the regional aspects of the United States, or expecting to travel within its boundaries.

Prerequisite: *Geology 1, 2, or 1a, 2a, or Geography 1, 2; may be taken concurrently with 2. With the instructor's permission may be taken without Course 2 or 2a. Alternates with a similar course on the western United States, (28W).* T Th 9. [6] 212 Milbank.

### 30. Seminar in Geology or Geography. 3 points. PROFESSORS SHARP and ZOBLER.

A seminar course with discussions, problems, and readings on various topics in geology or geography.

Prerequisite: A year of geology or geography. Open to juniors and seniors. Geography, M 3–5; Geology, W 2–4. [0] 214 and 212 Milbank.

## GERMAN

LOUISE G. STABENAU, A.M., Assistant Professor of German  
*Acting Executive Officer*

GERTRUD SAKRAWA, Ph.D., Instructor in German

ALEXANDER GODE, Ph.D., Lecturer in German

A major in German is designed to provide the student with (1) the ability to comprehend and interpret both written and spoken German, (2) a fair amount of

## GERMAN

ease in expressing herself in German, in speaking as well as in writing and (3) a fundamental understanding of German literature and civilization.

A student majoring in German is expected to take 28 points of work above the elementary level. Students interested in a teaching career in German should plan to supplement their linguistic training by work in the Middlebury Summer School or in one of the summer schools of Germany, Austria or Switzerland, or by attending the Junior Year in Germany; and/or by spending a year at a university in one of these countries after graduation from Barnard College.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, history of art, history, philosophy and religion.

Students majoring in other fields in which a reading knowledge of German is suggested should plan to take at least two years of college German. The average student can expect to have real proficiency in reading only at the end of a third year college course.

The major examination consists of two three-hour written examinations and an oral of at least one hour. The first part contains mainly factual questions about the whole field of German literature so far as it is covered in our undergraduate offering. The second part consists of essay questions on subjects dealing with literary forms and their development, literary schools, influences and the relationship of literature to current events and thought. The oral test is designed to show the student's aural-oral proficiency in German; the subject matter of the conversation is drawn from things not sufficiently treated in the written examinations and from a special reading list compiled by the department for supplementary work.

### LANGUAGE COURSES

German is the language of the classroom, as far as possible, in all courses beyond Course 1, except in Course 7, 8.

**1-2. Beginners' Full-Year Course.** 6 points. PROFESSOR STABENAU, MISS SAKRAWA and —————.

Elements of grammar, easy reading, written and oral practice. Course 01-02 should be taken as a parallel course. [15]

Section I	M W F	9.	311 Milbank.
Section II	M W F	11.	311 Milbank.
Section III	M W F	2.	319 Milbank.

**01-02. Oral Practice.** 2 points. MISS SAKRAWA.

Conversation as extension of the work in Course 1-2.

Open also to students in Course 3, 4 and, by special permission, to students in other German courses. [0]

Section I	T Th	9.	133 Milbank.
Section II	T Th	11.	133 Milbank.

**3, 4. Intermediate Course.** 6 points. PROFESSOR STABENAU and MISS SAKRAWA.

Intensive and extensive reading of 19th and 20th century literature. Frequent short compositions in German. Grammar review during Winter Session.

Prerequisite to Course 3, Course 1-2 or two years of high school German. Prerequisite to Course 4, Course 3 or three years of high school German. [15]

Section I	M W F	1.	311 Milbank.
Section II	T Th	2:10-3:25.	4 Milbank.

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## §7, §8. Advanced Translation. 6 points. —————.

Reading and analysis of expository prose in the fields of science, history, literary criticism, and the like. Outside reading of fiction or of material related to student's special field.

Prerequisite to *Course 7*, *Course 4* or the written permission of the instructor. Prerequisite to *Course 8*, *Course 7* or the written permission of the instructor. M W F 11. [3] 133 Milbank.

## 9, 10. Advanced Practice Course. 4, or on written permission of the instructor, 6 points. MISS SAKRAWA.

Oral and written expression on a variety of topics, including the German cultural heritage. Opportunity for grammar review. Weekly compositions. Frequent oral reports. Also improvised conversation.

Prerequisite: *Course 3* or a high rating in three years of high school German. T Th 10, and individual conferences for the third point. [0] 133 Milbank.

### LITERATURE COURSES

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken, and a grade of C— or higher is obtained.

All courses are conducted in German. Students without aural-oral proficiency should take *Course 9, 10* preparatory or parallel to course in literature.

## §5, §6. Lessing, Goethe, and Schiller. 6 points. PROFESSOR STABENAU.

Intensive reading and discussion of the major works of these writers. Prose, drama and poetry. Occasional short papers in German.

Prerequisite for *Course 5*, *Course 4* or a high grade in three years of high school German. Prerequisite for *Course 6*, *Course 5* or the written permission of the instructor. *Course 5, 6* is recommended as preparation for more advanced courses in German literature. M W F 10. [2] 133 Milbank.

## §25, §26. The Drama of the Nineteenth Century. 4 or 6 points. PROFESSOR STABENAU.

Reading and discussion of the major works of the most representative dramatists from Schiller to Gerhart Hauptmann.

Prerequisite: *Course 5, 6* or *7, 8* or the written permission of the instructor. T Th 11. [8] 13 Milbank.

## [§27. Prose Fiction of the Nineteenth Century. 2 or 3 points. MISS SAKRAWA.

*Not given in 1955–56.]*

Reading and discussion of masterworks of German prose. Complementary lectures on literary and cultural tendencies and movements.

Prerequisite: *Course 5, 6* or *7, 8* or the written permission of the instructor.

## [§28. The Literature of the Twentieth Century. 2 or 3 points. MISS SAKRAWA.

*Not given in 1955–56.]*

A survey of the development of lyric poetry, drama and prose since the turn of the century. Reading of representative works up to present-day literary production. Discussions and lectures.

Prerequisite: *Course 5, 6* or *7, 8* or the written permission of the instructor.

## §29. German Romanticism. 2 or 3 points. DR. GODE.

The character of the Romantic School is elaborated in contrast to the 18th

## GOVERNMENT

century by intensive study of selected works of the early and later romanticists, with sample readings in contemporary criticism and philosophy.

Prerequisite: *Course 5, 6 or 7, 8 or the written permission of the instructor.*  
T Th 3. [13] 133 Milbank.

[§35. **Goethe's Faust.** 2 or 3 points. DR. GODE.

*Not given in 1955-56.]*

Intensive study of Parts I and II in relation to the poet's life and time with a comparative survey of the history of the Faust motive in earlier centuries.

Prerequisite: *Course 5, 6 or 7, 8 or the written permission of the instructor.*

[§45, §46. **History of German Literature from the Earliest Times to the Nineteenth Century.** 6 points. —————.

*Not given in 1955-56.]*

A study of representative works on the background of social and cultural conditions. Lectures and discussions.

Prerequisite: *Course 5, 6 or 7, 8 or the equivalent.*

### CIVILIZATION COURSE

A knowledge of German is not required.

**52. German Life and Institutions.** 3 points. Miss SAKRAWA.

Lectures in English on various aspects of German cultural history from the 18th century to the present. Outside reading of sources and audio-visual work in music and art. Class discussions. T Th 3. [13] 133 Milbank.

### GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. A description of these courses will be found in the Announcement of the Faculty of Philosophy. The following are specifically recommended for 1955-56:

**\*201. History of German Literature to the Reformation.** 4 points. PROFESSOR JACKSON.

M W F 11. 508 Philosophy. Discussion hour at Barnard to be arranged.

**\*202. History of German Literature from the Baroque Period to the Age of Enlightenment.** 3 points. PROFESSOR STEIN.

T F 11. 508 Philosophy. Discussion hour at Barnard to be arranged.

## GOVERNMENT

PHOEBE MORRISON, Ph.D., J.S.D., Associate Professor of Government  
*Executive Officer*

THOMAS PRESTON PEARDON, Ph.D., Professor of Government

JOHN B. STEWART, Ph.D., Assistant Professor of Government

RUTH A. ROOSA, A.M., Lecturer in Russian Studies

JOSEPH A. HEARST, A.M., Lecturer in Government

ARNETT ELLIOTT, A.B., Lecturer in Government

The department has defined a major in government in broad terms. It conceives of the major as preparing a perceptive citizen for her role in the modern world, whether she intends to become a civil servant, a teacher or a lawyer or to

## BARNARD COLLEGE

engage in any similar activity. It has designed the courses not to develop a specialist but to establish a fund of knowledge which will serve the student as a basis either for further work or for her experience as a citizen.

A student majoring in government should take Courses 3, 4 and 5, 6 and, if possible, at least one other fundamental course such as those offered in international relations 11, 12, constitutional law 25, 26, and political theory 31, 32. She should then select more specialized courses in accordance with her field of interest and in conference with her adviser.

Because of the close relationship between the subject matter of history and that of government a student majoring in government may, with the written permission of the adviser, offer as part of the required 28 points, 6 points in history. When such courses are counted toward the major in government, they may not also be counted toward the satisfaction of the requirement in other social sciences described below.

A student majoring in government must acquire a reading knowledge of some foreign language.

Other social sciences: In view of the essential unity of the social sciences, every student majoring in government is required to take courses amounting to 12 points distributed between two of the following departments as selected in conference with the adviser: anthropology, economics, geography, history, philosophy, psychology, religion, sociology.

At the end of the senior year there is a five-hour major examination.

See also *Other Interdepartmental Offerings*, page 29 and *International Relations*, page 28.

### FUNDAMENTAL COURSES

**3, 4. An Introduction to Comparative Government.** 6 points. PROFESSORS PEARDON and STEWART and MR. HEARST and MR. ELLIOTT.

A survey of contemporary political systems, especially those of England, France, the U.S.S.R., Italy, and Germany.

Open to all except freshmen. Prerequisite for Section III: *History 1-2*.

Section I M W F 11. [3] 301 Barnard.

Section II M W F 1. [4] 409 Barnard.

Section III T Th 10:35-11:50. [8] 315 Milbank.

**5, 6. An Introduction to American Government.** 6 points. PROFESSOR MORRISON and \_\_\_\_\_.

A survey of contemporary American government and public problems, including the fundamental doctrines of the American constitution, the party system, the organization and work of legislative bodies, the leadership of the executive and the process of administration, the judicial system, and problems of state and local government.

Open to all except freshmen.

Section I M W F 10. [2] 29 Milbank.

Section II M W F 10. [2] 315 Milbank.

**11, 12. International Relations.** 6 points. MR. HEARST.

An analysis is made of the setting and basic factors of contemporary world politics, and proposals for reconstructing a stable international order are studied.

Open to all except freshmen. M W F 9. [1] 319 Milbank.

## GOVERNMENT

### 25, 26. The Constitution of the United States. 6 points. PROFESSOR MORRISON.

Basic issues in American government are developed through materials on constitutional interpretation, especially decisions of the Supreme Court. The course is designed for students of American government as well as for the pre-law candidate.

Prerequisite: *Course 5, 6 or History 3-4 or the equivalent.* T Th 9:10-10:25. [6] 211 Milbank.

### 31, 32. The History of Political Thought. 6 points. \_\_\_\_\_.

Major political writings from ancient to modern times are studied and political doctrine such as democracy, liberalism, socialism, fascism, and communism are examined. Emphasis is placed on a comparison of basic ideas and on the relationships between theories and contemporary historical circumstances.

Prerequisite: *Course 3, 4 or History 1-2.* T Th 2:10-3:25. [9] 315 Milbank.

## SPECIALIZED COURSES

### ✓ 15. The Soviet Union. 3 points. MRS. ROOSA.

An analysis is made of the political theory and institutions of the U.S.S.R.: the Soviet State and its revolutionary origins; the Communist Party, governmental agencies, and the "mass organizations"; the place of the individual in Soviet society; internationalism and "Soviet patriotism"; developments since World War II.

Prerequisite: *Government 3, 4 or History 1-2.* M W F 2. [5] 315 Milbank.

### ✓ 16. The U.S.S.R. in World Affairs. 3 points. MRS. ROOSA.

Soviet foreign policy as it has developed since 1917 is examined, especially diplomacy and communist internationalism during the first two decades of Soviet rule; World War II and its aftermath; current trends.

Prerequisite: *Government 3, 4 or History 1-2.* M W F 2. [5] 315 Milbank.

### 18. The United States in Contemporary World Politics. 3 points. MR. HEARST.

A survey is made of some of the more important policy decisions in American foreign policy since World War II. Discussion pivots around such problems as the evolution of the United Nations, the movement toward European integration, the problem of foreign aid, and the creation of regional defense systems.

Open to juniors and seniors. M W F 1. [4] 37 Milbank.

### [21. American Political Parties and Practice. 3 points. MR. HEARST.

*Not given in 1955-56.]*

The dynamics of American political life is examined with special attention to the factors entering into the formation of public opinion, the role of pressure groups, and the operations of the party system. First-hand observation and study of the actual management of political campaigns and of the operation of legislative bodies and civic organizations is required.

Prerequisite: *Course 5, 6.*

### [27. Administration and Modern Government. 3 points. MR. HEARST.

*Not given in 1955-56.]*

The role of administration in modern American government is developed through case studies. Special attention is given the problems of administrative control, responsibility, the civil service, and centralization.

Prerequisite: *Course 5, 6, or the equivalent.*

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**45, 46. Special Reading.** 2 or 4 points. Members of the department.

Selected problems in politics and government are examined.

This course may be taken only on written permission. M 3 or W 2 or Th 3. [0]

### COURSES FOR SENIOR MAJORS

The following courses are intended primarily for senior majors in government, but may be taken by seniors majoring in related fields who receive written permission from the Department of Government.

**61, 62. Senior Seminar in Comparative Government.** 6 points. PROFESSORS MORRISON and COLIE.

Significant issues and trends in contemporary politics are developed through readings, discussions and the preparation of papers.

Open to senior majors in government and history.

W 4-6. [0] 39 Milbank.

### GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. Ordinarily a minimum of 12 points of government at Barnard in addition to a major interest in the social sciences is required as a prerequisite. A description of the graduate courses will be found in the Announcement of the Faculty of Political Science.

### GREEK AND LATIN

JOHN DAY, Ph.D., Associate Professor of Greek and Latin  
*Executive Officer*

<sup>1</sup>JOHN F. C. RICHARDS, Ph. D., Assistant Professor of Greek and Latin

<sup>1</sup>COLEMAN H. BENEDICT, Ph.D., Assistant Professor of Greek and Latin

<sup>1</sup>MARTIN OSTWALD, Ph.D., Assistant Professor of Greek and Latin

ALICE S. WILSON, Ph.D., Visiting Assistant Professor of Classics

<sup>1</sup>HERBERT W. BENARIO, Ph.D., Instructor in Greek and Latin

<sup>1</sup>ROBERT J. LENARDON, Ph.D., Instructor in Greek and Latin

In co-operation with the Department of Greek and Latin in Columbia University, certain courses (*Greek 19-20, 29-30; Latin 19-20, 29-30*) are offered in combination with Columbia courses by Columbia instructors; another course (*Latin 25*) is offered at Barnard College by a Columbia instructor.

The general objectives toward which the work of the department is directed are a knowledge of the language, literature, and civilization of the ancient Greeks and Romans. The emphasis varies in accordance with the student's interests.

**A major in Greek, or in Latin, or in Greek and Latin combined.** Courses may be counted toward these majors as follows:

**A major in Greek.** Twenty-four points in Greek and 4 points in archaeology or classical civilization or Greek history.

**A major in Latin.** Twenty-four points in Latin and 4 points in archaeology or classical civilization or Roman history.

<sup>1</sup> Officer of Columbia University giving instruction in Barnard College.

## GREEK AND LATIN

**A major in Greek and Latin combined.** The following combinations are possible: (a) 18 points of Greek, 10 points of Latin; (b) 18 points of Latin, 10 points of Greek. No points in archaeology or classical civilization may count.

At least one course in Greek composition and one course in Latin composition are strongly recommended.

Other fields: The work in other fields will vary with the special interest of the student and should be arranged in consultation with the department. Students will find it profitable to take courses in Greek history, or in Roman history, or in both. A reading knowledge of French and German is advised.

The major examination at the end of the senior year consists of two three-hour examinations, the exact delimitation of which is determined by the special interests and preparation of the student, and by the major subject she chooses. In general, the examination will cover translation into English; translation of English into one or the other or both of the classical languages; ancient history and civilization; literature, with a more searching examination in a "special author" to be chosen by the student. The department will, upon request, provide a list of suggested readings which should be of assistance in preparation for the examination.

### CLASSICAL CIVILIZATION

**55. Greek Literature in Translation.** 2 points. PROFESSOR WILSON.

Homer, Hesiod, lyric poetry, Herodotus, and Thucydides. Open to all except freshmen. T Th 11. [8] 207 Milbank.

**57, 58. Masterpieces of Greek Thought.** 6 points. PROFESSOR DAY.

A study of great Greek books and compositions of smaller compass, from the point of view of thought. The emphasis will be upon what the Greek authors have to say, not upon later interpretations of their works. *Winter Session:* Plato's *Republic* and Aristotle's *Politics*, with possibly some consideration of Herodotus and Thucydides. *Spring Session:* Aristotle's *Ethics* and *Poetics* and selected plays of the great dramatists.

Completion of this course will satisfy the non-literature part of the humanities requirement. M W F 11. [3] 319 Milbank.

**[87, 88. The Tradition of the Humanities (same as English 39, 40).]** 6 points. DR. BOVIE.

*Not given in 1955–56.]*

Class discussions based on the reading of significant books in the history of European thought. *Winter Session:* The ancient world, from Homer to Vergil. *Spring Session:* Medieval and modern Europe, from Augustine to the twentieth century.

Written permission of the instructor required. Registration limited to 12.

**NOTE:** The following courses in Classical Civilization have been offered in recent years and may be offered again: 49, 50—*Greek Life and Thought*; 53, 54—*Roman Life and Thought*; 75—*Greek Political Thought*; 77—*Classical Drama*; 78—*Comparative Literature*.

### GREEK LANGUAGE AND LITERATURE

Written permission of the department required for all language courses. Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C— or higher is obtained.

**1–2. Introductory Course.** 6 points. PROFESSOR WILSON.

Grammar, composition, and reading. *Course 1* is prerequisite to *Course 2*. M W F 2. [5] 101 Barnard.

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**§11. Plato: Apology; Euripides: One Play.** 3 points. PROFESSOR DAY.

Prerequisite: *Course 1–2* or three years of high school Greek or permission of the department. M W F 10. [2] 209 Milbank.

**§12. Selections from Homer and Herodotus.** 3 points. PROFESSOR WILSON.

Prerequisite: *Course 1–2* or three years of high school Greek or permission of the department. M W F 10. [2] 209 Milbank.

**19–20. Prose Composition: First course.** 2 points. DR. BENARIO.

May be taken in connection with any reading course in Greek (except *Course 1–2*), but not separately, and may be taken for credit in two different years. Particularly recommended to students who have taken only *Course 1–2*. Th 1. [0] 512 Hamilton.

**§25. Greek Oratory.** 3 points. \_\_\_\_\_.

Prerequisite: *Courses 11 and 12* or permission of the department. M W F 11. [3] 29 Milbank.

**§26. Greek Comedy.** 3 points. \_\_\_\_\_.

Prerequisite: *Courses 11 and 12* or permission of the department. M W F 11. [3] 29 Milbank.

*Courses 25, 26 and 21 (Greek Tragedy), 22 (Thucydides)* are offered in alternate years.

**29–30. Prose Composition: Advanced course.** 2 points. PROFESSOR OSTWALD.

Prerequisite: *Course 19–20* or the equivalent. May be taken in connection with any reading course in Greek, but not separately, and may be taken for credit in two different years. Th 1. [0] 510 Hamilton.

See also \**Fine Arts 43*, page 54, and *History 5, 6*, page 77.

## LATIN LANGUAGE AND LITERATURE

Written permission of the department required for all language courses. Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C– or higher is obtained.

**3. Vergil: Selections from Aeneid I–VI.** 3 points. DR. BOVIE.

Prerequisite: Two or three years of high school Latin or the equivalent. *Course 19–20* is strongly recommended as a parallel course. M W F 2. [5] 133 Milbank.

**4. Cicero: Selections; Ovid: Selections.** 3 points. DR. BOVIE.

Prerequisite: Two or three years of high school Latin or the equivalent. *Course 19–20* is strongly recommended as a parallel course. M W F 2. [5] 133 Milbank.

**§11. Selections from Latin Literature.** 3 points. PROFESSOR WILSON.

Prerequisite: *Course 3 or 4* or four years of high school Latin. *Course 19–20* is strongly recommended as a parallel course. M W F 1. [4] 39 Milbank.

**§12. Horace: Odes and Epodes.** 3 points. PROFESSOR DAY.

Prerequisite: *Course 3 or 4* or four years of high school Latin. *Course 19–20* is strongly recommended as a parallel course. M W F 1. [4] 39 Milbank.

## HISTORY

### 19–20. Prose Composition: First course. 2 points. DR. LENARDON.

May be taken in connection with any reading course in Latin, but not separately, and may be taken for credit in two different years. Strongly recommended as a parallel to Courses 3, 4 and 11, 12. T 2. [0] 510 Hamilton.

### §25. Livy: Book I; Vergil: Selections from Aeneid VII-XII. 3 points. PROFESSOR RICHARDS.

Prerequisite: Courses 11 and 12 or permission of the department. T Th 9:10–10:25 [6] 39 Milbank.

### §26. Roman Drama. 3 points. PROFESSOR WILSON.

Prerequisite: Courses 11 and 12 or permission of the department. T Th 9:10–10:25 [6] 39 Milbank.

Courses 25, 26 are rotated in a three-year cycle with Courses 21 (*Juvenal; Martial; Pliny*), 22 (*Cicero; Ovid*); 27 (*Lucretius; Horace*), 28 (*Tacitus*).

### 29–30. Prose Composition: Advanced course. 2 points. PROFESSOR BENEDICT.

Prerequisite: Course 19–20. May be taken in connection with any reading course in Latin, but not separately, and may be taken for credit in two different years. M 3. [0] 507 Hamilton.

## HISTORY

RENÉ ALBRECHT-CARRIÉ, Ph.D., Professor of History  
*Executive Officer*

BASIL RAUCH, Ph.D., Professor of History

VIRGINIA D. HARRINGTON, Ph.D., Associate Professor of History

CHILTON WILLIAMSON, Ph.D., Associate Professor of History

JOHN H. MUNDY, Ph.D., Assistant Professor of History

SIDNEY A. BURRELL, Ph.D., Assistant Professor of History

DORA B. WEINER, Ph.D., Instructor in History

RUTH A. ROOSA, A.M., Lecturer in Russian Studies

ANNETTE K. BAXTER, A.M., Lecturer in History

The subject matter of history is the development of religious, philosophical, political, social, and economic ideas and institutions. Touching thus upon every aspect of human activity, it engenders not only an enlarged sense of perspective and a respect for the achievements of mankind in times past, but also a deeper understanding of the diversities and complexities of human relations. History serves to bind each individual to his times and to his brothers among men.

A major in history: to acquire a broad understanding of major historical developments, a student majoring in history must take 1–2, 3–4, and one further fundamental course in ancient, medieval or English history. She should then concentrate on European or American history, in which she will do work of a more advanced character. In order to gain insight into the techniques of history, seniors are required to take one of the seminars, 45, 46; 47, 48; 49, 50; 51, 52.

In view of the close relation between the subject matter of history and that of government, 6 points in government may, with the written permission of the department, be offered as part of the 28 points of the major.

Students majoring in history must acquire a reading knowledge of some foreign language.

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Allied work: In view of the essential unity of the social studies, students majoring in history must elect 12 points distributed in two social sciences other than history.

Honors in history: Under a ruling of the Faculty, a department may recommend students for graduation with honors in their major field. The History Department has a special program qualifying a student for Honors in History. Interested students should consult the Executive Officer.

A senior seminar and a senior essay are required in lieu of the major examination.

**Combined majors:** With the work in history students may combine work in other departments to make up a group of correlated courses on some large subject, such as ancient history and philosophy or art; modern history and international relations, economics or sociology; English history and literature or government; American history and economics; the history of thought and culture. See also *Other Interdepartmental Offerings*, page 29.

### FUNDAMENTAL COURSES

**1-2. Survey of Modern European History from the Age of Discovery to the Outbreak of the Second World War.** 6 points. PROFESSORS CARRIÉ, WILLIAMSON, MUNDY and BURRELL, and DR. WEINER.

*Winter Session:* Foundations of modern Europe; political, economic, social, and intellectual achievements from the fifteenth century to the eighteenth; the British, American, and French Revolutions; the era of Napoleonic and the Congress of Vienna. *Spring Session:* Industrial Revolution; rise of nationalism; social, intellectual, and economic problems of the nineteenth century; imperialism and world politics; causes and consequences of the First World War; Fascism, Bolshevism, Nazism; causes and outbreak of the Second World War. [16]

Section I	M W F 9.	129 Milbank.
Section II	M W F 10.	129 Milbank.
Section III	M W F 11.	129 Milbank.
Section IV	M W F 1.	129 Milbank.
Section V	M W F 2.	129 Milbank.
Section VI	T Th 9:10-10:25.	129 Milbank.
Section VII	T Th 2:10- 3:25.	129 Milbank.

**3-4. Introduction to the History of American Civilization.** 6 points. PROFESSORS RAUCH, HARRINGTON, WILLIAMSON and MRS. BAXTER.

Origins, background, development, and character of American civilization; the coming of Europeans and other peoples to the Americas from the fifteenth to the twentieth centuries and an estimate of their contributions; European events as they influence the growth of the Americas. The Thirteen English Colonies and the United States as part of the American hemisphere and of the world; the development of American institutions and culture.

Note: Required of prospective majors in American Civilization during the freshman or sophomore year. [15]

Section I	M W F 10.	202 Milbank.
Section II	M W F 10.	215 Milbank.
Section III	T Th 2, W 4.	309 Milbank.

**5, 6. Ancient History.** 6 points. PROFESSOR MUNDY.

A survey of the ancient Mediterranean World. *Winter Session:* From the appearance of written records in Egypt and Mesopotamia, through the development of Greek civilization to the beginning of Roman interference in the eastern Mediterranean. *Spring Session:* Pre-Roman Italy; rise of Rome from a fortified village to ruler of the "known-world"; the character of the Roman Empire and the causes of its dissolution; the beginnings and triumph of Christianity. M W F 1 [4] 203 Milbank.

**7, 8. Medieval and Renaissance History.** 6 points. PROFESSOR MUNDY.

This course covers the history of Europe from the decline of the Roman Empire to the rise of the national monarchies in Western Europe. Among the topics treated are: political movements and theories, social and economic life and organization, and the evolution of the Christian Church. M W F 3. [10] 311 Milbank.

**11-12. England from the Norman Conquest to the Twentieth Century.** 6 points. PROFESSOR BURRELL.

A survey of the evolution of England and the British Isles from the medieval Norman monarchy through world-wide domination to the beginnings of collectivism. *Winter Session:* The Norman Conquest, the centralization and decline of the medieval monarchy; the emergence of Tudor nationalism and the beginnings of the struggle for parliamentary supremacy in the seventeenth century. *Spring Session:* The victory of parliament over the crown; the rise of "oligarchic liberalism" and the first British Empire; the industrialization of Britain and its aftermath; the "new imperialism"; the political and social changes of the nineteenth and twentieth centuries. M W F 9. [1] 37 Milbank.

**25, 26. Europe since 1870.** 6 points. PROFESSOR CARRIÉ.

The internal evolution of the principal powers; the dominance of Bismarck's Germany; the renewal of imperial expansion and the formation of rival alliances. The First World War: origins and course; the issue of responsibility; the peace settlements; the League; the apparent liquidation of the war; the new political systems; the collapse of the nineteen-thirties. The Second World War: origins, course, and legacy.

Open to all except freshmen. T Th 2:10-3:25. [9] 207 Milbank.

**[27. France since 1715.]** 3 points. DR. WEINER.

*Not given in 1955-56.]*

The philosophy of the Enlightenment, social change, political ineptitude, and military defeat on the continent and in the colonies viewed as causes of the French Revolution. The First Republic, the career of Bonaparte and the Napoleonic era.

Preceding or parallel, *Course 1-2.*

**R28. France in the Nineteenth Century.** 3 points. DR. WEINER.

The political, social, and cultural development of France from the Bourbon restoration to the secure establishment of the Third Republic.

Preceding or parallel, *Course 1-2.* W 4-6 and Th 1. [15] 209 Milbank.

**[29, 30. The Modern Mediterranean World.]** 6 points. PROFESSOR CARRIÉ.

*Not given in 1955-56.]*

Historic role of the Mediterranean. The Near Eastern question in the nineteenth century: the Powers and the Ottoman Empire; emancipation of the Balkan nations. The *Drang nach Südosten* and the emergence of Italy. The period of the First World War and after: the new Turkey; Arab nationalism and imperial rivalries.

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**33, 34. Studies in American Colonial History.** 4 or 6 points. PROFESSOR HARRINGTON.

*Winter Session:* Economic, religious, social, and intellectual aspects of colonial culture. *Spring Session:* The Revolutionary Movement: the ripeness of the colonies for rebellion; the organization of resistance; the clash of ideas as well as arms; the internal significance of the Revolution and its influence on the development of American institutions and outlook.

Open to all except freshmen. T Th 11. [8] 203 Milbank.

**35, 36. History of the British Empire.** 6 points. PROFESSOR WILLIAMSON.

A survey of the Empire from Tudor times to the Second World War. *Winter Session:* The origins, expansion, and institutions of the mercantilistic empire to 1815. *Spring Session:* The free trade and anti-imperialist movements; the evolution of responsible government; the emergence about 1870 of the "new imperialism"; the development of the British Commonwealth of Nations; the special problems of the dependent Empire.

Preceding or parallel: *Course 1-2.* M W F 2. [5] 211 Milbank.

**37, 38. History of Russia.** 6 points. MRS. ROOSA.

A survey of the political, economic, and social development of Russia from the earliest times through the Second World War. *Winter Session:* From the earliest times to the Revolution of 1905, with emphasis on the period since Peter the Great; political evolution and geographic expansion; the impact of western ideas on Russian culture and society; the rise and fall of serfdom; industrial and commercial development; the beginning of revolutionary movements. *Spring Session:* 1905 through the Second World War; the last decade of the Empire; the Revolution of 1917; the Soviet Union—War Communism, the New Economic Policy, the Five Year Plans, wartime and post-war developments.

Open to all except freshmen. M W F 1. [4] 315 Milbank.

**[41-42. History of Science.]** 6 points. PROFESSOR CARRIÉ.

*Not given in 1955-56.]*

The development of the main currents of scientific thought, pre- and post-Renaissance, emphasizing the historical relationship between the scientific and the social, economic, and cultural aspects of western civilization.

Open to juniors and seniors only. *Course 41* is prerequisite to *Course 42.*

**43. The History of Education in the United States.** 3 points. PROFESSOR HARRINGTON.

The development of education in the United States presented and assessed against the background of political, philosophical, religious, and scientific thought. Emphasis will be placed upon the social and intellectual forces which have shaped educational purposes, programs, and institutions. M W F 2. [5] 37 Milbank.

**45, 46. Readings in Historiography.** 8 points. PROFESSOR BURRELL.

Readings and research into the ideas and methods of historical study from the beginnings of western civilization to the twentieth century. Introduction to historical criticism.

Open to seniors on written permission of the instructor. T 4-6 and frequent conferences. [0] 307 Milbank.

**47, 48. Seminar in American Civilization.** 8 points. PROFESSOR RAUCH.

Readings in primary sources on diverse aspects of American civilization and presentation of results for seminar discussion.

## HISTORY

Open to senior majors in American Civilization on written permission of the instructor. W 4-6. [0] 211 Milbank.

### **49, 50. Seminar in European Civilization.** 8 points. PROFESSOR CARRIÉ.

Research into the literature of European issues such as nationalism, socialism, and the balance of power. Presentation of results for seminar discussion.

Open to seniors on written permission of the instructor. T 4-6. [0] 209 Milbank.

### **51, 52. Colloquium in the Literature of American History.** 8 points. PROFESSOR HARRINGTON.

Extensive reading and discussion of the work of classic figures in American historiography, such as Bancroft, Parkman, Prescott, Hildreth, and of significant monographic literature and major writings of more recent times.

Open to seniors on written permission of the instructor. W 4-6 and frequent conferences. [0] 13 Milbank.

### **58. History of Religion in America** (same as Religion 58). 3 points. PROFESSOR HARRINGTON.

The history of religious thought and institutions in the United States from colonial times to the present. Special attention will be paid to the developments of the nineteenth and twentieth centuries. M W F 2. [5] 29 Milbank.

### **60. Colloquium on France in the Twentieth Century.** 3 points. DR. WEINER and PROFESSOR BREUNIG.

A detailed study of modern France with emphasis on political and cultural issues. Extensive readings in the history and literature of the period.

Prerequisite: *History 1-2* and a reading knowledge of French. Written permission of the instructor required. W 4-6. [15] 209 Milbank.

### **[83, 84. History of United States Foreign Relations.]** 6 points. PROFESSOR RAUCH.

*Not given in 1955-56.]*

The history of American diplomacy from the Secret Committee on Correspondence to recent times, with attention to domestic and foreign influences on the qualities and actions of American leaders.

Preceding or parallel: *Course 3-4.*

### **85, 86. Studies in Twentieth Century American History.** 6 points. PROFESSOR RAUCH.

Economic, social, political, and cultural topics will be studied by means of lectures, individual reading programs, written reports, and group discussions.

Preceding or parallel: *Course 3-4.* T Th 3 and conferences. [13] 319 Milbank.

### **\*87, 88. The History and Culture of Latin America.** 6 points. MR. MORSE.

*Winter Session:* Indian and Iberian backgrounds; conquest of America; cultural clash and fusion; topical analysis of colonial institutions, society, arts; eighteenth-century reforms; war for independence. *Spring Session:* Historical survey of nations and regions (1825-1950), followed by thematic treatment of modern Latin America's peoples and customs, institutions, economy, religion, cultural expression, international relations. T Th 11-12:15.

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## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the Committee on Programs and Standing of Barnard College. Ordinarily a minimum of 18 points in history at Barnard, or in special cases, the equivalent thereof in courses in other social sciences, is required as a prerequisite. A description of the graduate courses will be found in the Announcement of the Faculty of Political Science.

## HYGIENE

**Hygiene.** 2 points. DR. NELSON, College Physician.

*Spring Session:* This course is required of all students who have not passed the exemption test. T Th 10. [7] 101 Barnard.

## ITALIAN

MARISTELLA DE PANIZZA BOVÉ, Litt.D., Assistant Professor of Italian  
*Executive Officer*

ELIZABETH CZONICZER, Ph.D., Lecturer in Italian

A major in Italian should enable the student to express herself correctly in the written and spoken language. It offers, also, intensive study of the literature of certain centuries and a general knowledge of the art, geography and history of Italy.

The major examination consists of four hours of written work and an oral examination of two hours.

## LANGUAGE COURSES

**1-2. Introductory Full-Year Course.** 8 points. PROFESSOR BOVÉ and DR. CZONICZER.

Grammar, easy reading, conversation.

This course may not be taken parallel to Spanish 1-2. [17]

Section I M T W Th F 9. 101 Barnard.

Section II M W F 4, T Th. 9. 321 Milbank.

**3, 4. Intermediate Course.** 6 points. PROFESSOR BOVÉ and DR. CZONICZER.

*Winter Session:* Translation, conversation, composition. *Spring Session:* Reading of texts which will introduce the student to Italian literature.

Prerequisite: Course 1-2 or the equivalent. Conducted in Italian. T Th 11 and F 2. [8] 39 Milbank.

**5, 6. Italian Conversation.** 2 points. DR. CZONICZER.

No credit unless taken in connection with another Italian course. T Th 10 [7] 209 Milbank.

**7, 8. Composition and Advanced Translation.** 2 points. PROFESSOR BOVÉ.

Hours to be arranged.

## LITERATURE COURSES

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken and a grade of C- or higher is obtained.

## ITALIAN

**§13, §14. Dante: "La Divina Commedia."** 6 or 8 points. PROFESSOR BOVÉ.

Prerequisite: *Course 3, 4 or 2* and a special examination. With the written permission of the department this course may be taken for credit in two different years. Conducted in Italian. M 2-4 and W 3. [5] 209 Milbank.

[**§15, §16. The Italian Renaissance.** 6 or 8 points. PROFESSOR BOVÉ.

*Not given in 1955-56.]*

Petrarca; Marsilio Ficino, Pomponazzi; Machiavelli, Guicciardini; Castiglione; Ariosto, Tasso; Galileo; Giordano Bruno.

Prerequisite: *Course 3, 4 or the equivalent.* Conducted in Italian.

**§17, §18. Italian Literature of the Nineteenth Century.** 6 or 8 points. DR. CZONICZER.

Italian romanticism. Foscolo, Leopardi, Manzoni, Carducci, Pascoli, D'Annunzio.

Prerequisite: *Course 3, 4 or 2 and a special examination.* M W F 11. [3] 12 Milbank.

**21, 22. Masterpieces of Italian Thought from 1300 to 1700.** 4 or 6 points. PROFESSOR BOVÉ.

This course seeks to give those students who are not specializing in Italian a knowledge of some great Italian authors and their contribution to western civilizations. Among the authors to be discussed in lectures and read in English translation will be the following: Dante, Petrarca, Boccaccio, Lorenzo il Magnifico, Machiavelli, Guicciardini, Sarpi, Baldassar Castiglione, Leonardo da Vinci, Ariosto, Tasso, Campanella, Giordano Bruno, Giambattista Vico. T Th 9. [6] 406 Barnard.

**23, 24. Special Reading.** 2 or 4 points. DR. CZONICZER.

Discussions on readings in Italian art, history, science, music, and letters. Individual reading assignments are given in that field of Italian culture most intimately associated with the student's major interests.

Required of majors to whom this course offers an opportunity to supplement and co-ordinate their work in other courses. With the written permission of the department this course may be taken in two successive years. Conducted in Italian. Hours to be arranged. [0]

**25, 26. Italian Writers of the Late Nineteenth and Twentieth Centuries.** 4 points. DR. CZONICZER.

Italian prose writers of the late 19th and of the 20th centuries. Verga and Verism, D'Annunzio and Decadentism, Pirandello and Relativism, Svevo and the psychological novel; contemporary novelists: Moravia, Pavese, Rimanelli and others. Croce, Gentile and literary criticism. Main literary currents in Italy and in other European countries. Conducted in English. M W 3. [10] 37 Milbank.

[**27, 28. Seminar in Italian and Russian Literature of the Nineteenth and Twentieth Centuries.** 6 points. PROFESSOR BOVÉ and DR. ULANOV.

*Not given in 1955-56.]*

An examination of the striking parallels and few contrasts between the two literatures in this period. *Winter Session:* The emergence of Russian poetry based upon Italian models. Manzoni's *The Betrothed*, Tolstoi's *War and Peace* and the bourgeois ideal. Dostoevski, Leopardi and the melancholy view of human nature. The rejection of Romanticism in both countries. *Spring Session:* The conflict be-

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tween liberalism and totalitarianism as reflected in the two literatures. Russian and Italian Futurism. Chekhov and Pirandello. Slavic experimentalism and Italo Svevo. Dostoevski and D'Annunzio. Literature under Fascism compared with literature under Communism. Dostoevski's vision of the totalitarian state.

### 29. The Drama in Italy. 3 points. PROFESSOR BOVÉ.

The drama in Italy from the miracle play and the "commedia dell' arte" to the melodrama and the romanticists. Conducted in English. M W 10 and a third hour of conference. [2] 410 Barnard.

### \*195, 196. Readings in Italian Literature. 6 points. PROFESSOR BOVÉ.

Intensive analysis of selected Italian masterpieces. Conducted in English. Th 5-7. 401 Hamilton.

### [\*197, 198. Literary Italian. 6 points. PROFESSORS DE NEGRI and BOVÉ.

*Not given in 1955-56.]*

An intensive course in the Italian language based on a study of easy but culturally significant texts. Grammatical introduction and syntactical explanations. No previous knowledge of Italian is required but the student must be familiar with Latin or one of the romance languages. Open only on written permission of Professor de Negri or Professor Bové.

## LATIN

See *Greek and Latin*

## LINGUISTICS

See *Anthropology*

## MATHEMATICS

EDGAR R. LORCH, Ph.D., Professor of Mathematics  
*Executive Officer*

JOANNE ELLIOTT, Ph.D., Assistant Professor of Mathematics  
DOUGLAS DICKSON, A.M., Instructor in Mathematics  
SALLY LIPSEY, A.M., Lecturer in Mathematics

**A major in mathematics.** A student majoring in mathematics will be required to take a minimum of 28 points including the calculus sequence, 31, 32, 33, or the equivalent, and, in addition, courses selected with the approval of the department. For additional information regarding courses in mathematics, the student is urged to consult the current Announcements of Columbia College, the School of General Studies, and the Faculty of Pure Science.

**Other fields:** Usually it is advantageous to supplement the mathematical studies with work in allied subjects. For example, courses in physics, chemistry, or statistics are frequently elected. The choice of these related courses will vary with the interests of the student and must be chosen in consultation with the department.

**The major examination** will be given in two parts, both written. The first will concern the material covered in analytic geometry and the calculus sequence, that is 22; 31, 32, and 33. The second will be based on elective courses (work beyond the calculus).

## MATHEMATICS

**1 (or R1). Trigonometry.** 3 points either session. PROFESSOR LORCH and MR. DICKSON.

Trigonometric functions, logarithms, solutions of triangles, identities, trigonometric equations, graphs of the trigonometric functions, complex numbers, De Moivre's theorem.

*Winter Session (1): M W F 9. [1] 215 Milbank.*

*Spring Session (R1): M W F 10. [2] 319 Milbank.*

**6. Algebra and the Theory of Equations.** 3 points. MR. DICKSON.

The complex number system, theory of equations, determinants of order  $n$  and their application in solutions of systems of  $n$  linear equations, mathematical induction, permutations and combinations, probability. This course is recommended for those students in the biological and social sciences who can devote only a limited amount of time to mathematical studies.

Prerequisite: Algebra through quadratic equations. M W F 10. [2] 207 Milbank.

**7-8. Mathematical Analysis.** 6 points. PROFESSOR ELLIOTT and MR. DICKSON.

A general cultural course designed to give the student who intends to take only one year of college mathematics as broad a view as possible of the nature of mathematics. The subject matter will include topics from algebra, trigonometry, analytic geometry, differential and integral calculus. This course is not recommended for students of the physical sciences and is not open to students planning to major in mathematics. [12]

Section I M W F 2. 215 Milbank. Section II M W F 3. 215 Milbank.

**22 (or R22). Analytic Geometry.** 3 points either session. PROFESSOR ELLIOTT and MRS. LIPSEY.

In the analytic geometry of the plane, topics covered will include rectangular and polar co-ordinate systems, parametric equations, loci and their equations, the straight line, the conic sections, translations and rotations. An introduction to the analytic geometry of space will include planes, straight lines, and quadric surfaces.

Prerequisite: *Course 1.*

*Winter Session (R22): M W F 9. [1] 202 Milbank.*

*Spring Session (22): [12]*

Section I M W F 9. 202 Milbank.

Section II M 3, T Th 9. 202 Milbank.

**31-32 (or R31-R32). Calculus.** 6 points. MR. DICKSON and MRS. LIPSEY.

Differential and integral calculus. *Winter Session:* Derivatives and their applications. Tangents, maxima and minima, curve tracing, curvature, rectilinear and curvilinear motion, law of the mean. *Spring Session:* Integration. Applications to geometry and physics; areas, volumes, arc length, centroids, mass, fluid pressure, infinite series of constant terms, power series.

Students electing R31 in the Spring Session must take R32 in the following Winter Session. Prerequisite: *Course 22.*

*Entire year (31-32): T Th 10 and W 3. [7] 202 Milbank.*

*Spring Session (R31-equivalent of 31): M W F 9. [1] 215 Milbank.*

*Winter Session (R32-equivalent of 32): M W F 1. [4] 207 Milbank.*

**33 (or R33). Calculus.** 3 points. PROFESSOR ELLIOTT and MR. DICKSON.

Continuation of study of infinite series, Taylor's series, Taylor's formula with

## BARNARD COLLEGE

the remainder; partial derivatives and their applications to curves and surfaces in space; multiple integrals and their applications to geometry and physics; an introduction to vectors and vector notation.

Prerequisite: *Course 31–32.*

*Winter Session (33): M W F 10. [2] 207 Milbank.*

*Spring Session (R33): M W F 1. [4] 207 Milbank.*

### **43. Theory of Space and Time.** 3 points. PROFESSOR LORCH.

The course will be divided into two logically independent parts. The foundations of geometry: axiom systems, consistency, independence, and completeness; the consistency of hyperbolic geometry; the hyperbolic group, hyperbolic trigonometry. The elementary theory of relativity: the Galilean relativity principle; the Lorentz group, elementary relativistic dynamics.

Prerequisite: *Course 31–32. M W F 10. [2] 319 Milbank.*

### **48. Theory of Numbers.** 3 points. PROFESSOR ELLIOTT.

Factorization into primes, theory of congruences, quadratic reciprocity law, theory of finite fields.

Preceding or parallel: *Course 32. M W F 1. [4] 309 Milbank.*

### **[54. Advanced Calculus.]** 3 points. —————.

*Not given in 1955–56.]*

An introduction to various branches of mathematical analysis. Partial differentiation and multiple integrals and their applications to geometry and physics; line integrals, the theorems of Green and Stokes; Fourier series; Legendre polynomials and Bessel functions.

Prerequisite: *Course 33.*

### **[57. Higher Algebra.]** 3 points. —————.

*Not given in 1955–56.]*

An introduction to some of the fundamental concepts of modern algebra. The topics include the complex number system, groups, rings, fields, determinants and matrices.

Preceding or parallel: *Course 32.*

### **\*104. Differential Equations.** 3 points. PROFESSOR MURRAY.

The integration of ordinary differential equations, principally by formal methods. Applications to geometry and physics.

Prerequisite: *Course 33. M W F 9. 202 Hamilton.*

### **\*105. Elements of the Theory of Functions of Complex Variables.** 3 points. PROFESSOR MURRAY.

This course is intended for those who need a working knowledge of the theory of functions of complex variables as an instrument for the physical sciences and engineering. The subjects treated are: geometry and algebra of the complex plane; derivatives and the Cauchy-Riemann equations; conformal mapping; elementary functions; the Cauchy integral theorem and formula; contour integration and residues; singularities and power series expansions; Riemann surfaces.

Prerequisite: *Course 33. T Th 10 and F 12. 212 Hamilton.*

### **\*107. Probability.** 3 points. PROFESSOR KOOPMAN.

The classical theory of probability is developed in a rigorous fashion. The topics treated include: the theorems of Tchebycheff, Bernoulli, and Poisson; Stirl-

## MUSIC

ing's formula; the probability integral; generating functions; the normal law of error.

Preceding or parallel: *Course 33.* M W F 11. 303 Hamilton.

**\*110. Calculus of Finite Differences.** 3 points. PROFESSOR STRODT.

The calculus of finite differences and sums is developed in analogy to the differential and integral calculus, and is then applied to the study of difference equations, special functions, infinite products, and asymptotic expansions. Applications are made to interpolation and approximation in tabulated data.

Prerequisite: *Course 33.* T Th 11-12:15. 202 Hamilton.

**\*111. Fundamental Concepts of Mathematics.** 3 points. PROFESSOR KOLCHIN.

This course lays the groundwork on which almost all modern mathematics is based. Topics include sets, mappings, ordered sets, well-ordered sets, natural numbers, cardinal numbers, ordinal numbers, choice functions, Zorn's Lemma, mathematical induction, real and complex numbers, quaternions, n-dimensional spaces, Schwarz' inequality.

Prerequisite: *Course 33.* M W 4:10-5:25. 203 Hamilton.

**\*R111. Fundamental Concepts of Mathematics.** 3 points. PROFESSOR MURRAY.

Repetition during Spring Session of *Course 111.* M W F 10. 304 Hamilton.

**\*119. Group Theory.** 3 points. PROFESSOR TAYLOR.

The elementary theory of groups. M W F 10. 503 Hamilton.

## MUSIC

<sup>1, 2</sup>DOUGLAS STUART MOORE, A.B., Mus. D., Professor of Music  
*Executive Officer*

CAROLYN P. LOUGHBOROUGH, A.M., Associate Professor of Music  
*Chairman for Barnard*

OTTO LUENING, Professor of Music on the Joline Foundation

<sup>1</sup>WILLIAM J. MITCHELL, A.M., Professor of Music

<sup>1</sup>JACK BEESON, M.M., Assistant Professor of Music

<sup>1</sup>HOWARD SHANET, A.M., Assistant Professor of Music

<sup>2</sup>ALICE LEVINE MITCHELL, A.M., Instructor in Music

<sup>1</sup>EDWARD ARTHUR LIPPMAN, Ph.D., Instructor in Music

<sup>1</sup>F. MARK SIEBERT, A.M., Instructor in Music

<sup>1</sup>HUBERT DORIS, A.M., Instructor in Music

<sup>1</sup>RUDOLPH THOMAS, Lecturer in Music

*Teaching staff in applied music*

ALTA HILL. Piano

FRANK M. SHERIDAN. Piano

EVERETT ANDERSON. Voice

<sup>1</sup>SEARLE WRIGHT, F.A.G.O., Organ; University Chorus

<sup>1</sup>HUNTER WILEY, B.S. Band

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<sup>1</sup>Officer of Columbia University offering courses open to Barnard students.

<sup>2</sup>Absent on leave, Winter Session.

<sup>3</sup>Absent on leave, Spring Session.

## BARNARD COLLEGE

A major in music is designed to integrate music as an art and a craft within the framework of the liberal arts.

A student intending to major in music should plan to take 3 and R31 in the freshman year followed by R32 in the sophomore year, as these courses are prerequisite to the advanced courses in literature, theory, and history which are normally included in a major program. A student whose preparation has been inadequate will be advised to take 1-2 in the freshman year and 31-32 in the sophomore year.

In general, major programs are planned to include 28 points of advanced work (exclusive of applied music and 3 or 1-2) in literature, history, and in theory. The major examination will comprise work in all of these fields. Ordinarily 23-24, 31-32, 33-34, 35, 41-42, and 73-74 are required. Applied music courses (a maximum of 12 points) may be counted toward the degree but are not required. Music majors, whether or not registered in courses in applied music, are required to participate in activities such as the chorus or orchestra.

**Collegium Musicum.** The aim of this organization is to acquaint the students with certain neglected and unfamiliar masterpieces in the literature of music, in order to supplement concert and recital programs to be heard in the city and elsewhere. All students majoring in music are required to attend the meetings and are urged to participate actively in the performance of vocal and instrumental music. The literature to be used embraces music from medieval times to the present day. Emphasis is placed upon a variety of compositions and not on finished performance. Meetings are held several times a year in the College Parlor, Barnard Hall.

Other fields: A reading knowledge of German, Italian, or French is required. Students planning to do graduate work must know two foreign languages, including German. Courses in fine arts, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

Students majoring in music are required to take a major examination at the end of the senior year which will test their ability to cope with problems in those musical subjects, such as music history, theory, and analysis, which are emphasized by the department.

Practice rooms: The department provides practice rooms at a nominal charge for the use of students of applied music. Preference in assigning hours is given in order of application to those enrolled in courses given by the department. Application for practice time should be made to the departmental office, 601 Journalism, during registration and the first two days of classes. Organ students should apply to the Columbia departmental secretary, 601 Journalism.

Library: Books, scores, and records are available at the Barnard College Library. The Columbia Department of Music maintains in 701 Journalism a lending library of books and scores. In addition, phonographs with a large collection of records are available to students.

### LITERATURE AND HISTORY

**1-2. An Introduction to Music.** 4 points. PROFESSOR LUENING (*Music 1*) and MRS. MITCHELL (*Music 2*).

A study of the elements of musical structure designed to form intelligent habits of listening to music. The spring session is devoted to a study of selected masterpieces of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required.

This course satisfies the non-literature requirement in the humanities. T Th 11, Th 1. [8] 401 Horace Mann.

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### [3. A Survey of Musical Styles. 3 points. MRS. MITCHELL.

*Not given in 1955–56.]*

A one-semester course designed as a substitute for *Course 1–2* which may be elected by students who have had some previous musical training. The ability to read music is required.

### 8. Contemporary Music. 2 points. PROFESSOR LUENING.

A survey of contemporary music from Debussy to the present.

Prerequisite: *Course 1–2* or the equivalent.

*Course 8* in conjunction with *Course 15* will satisfy the non-literature requirement in the humanities. T Th 11. [8] 603 Journalism.

### \*9. The Heritage of Music. 2 points. PROFESSOR MOORE.

An inquiry into the various forms of musical expression, designed for the non-specializing student as a continuation of *Course 1–2*. Selected compositions from the Renaissance to the present day will be studied through an interpretation of their historical, functional, and cultural significance.

Prerequisite: *Course 1–2* or the equivalent. T Th 11. 603 Journalism.

### 15. The Symphony. 3 points. PROFESSOR LOUGHBOROUGH.

A survey of symphonic style and structure from about 1750 to the present.

Prerequisite: *Course 1–2* or the equivalent.

*Course 15* in conjunction with *Course 8* will satisfy the non-literature requirement in the humanities. M 2, W 2–4. [5] 603 Journalism.

### 16. The Opera. 3 points. PROFESSOR LOUGHBOROUGH.

A rapid survey of the development of opera from Monteverdi to the present.

Prerequisite: *Course 1–2* or the equivalent. M 2, W 2–4. [5] 603 Journalism.

### \*23–24. History of Music. 6 points. DR. LIPPMAN.

A survey of the history of music from the beginning of the Christian era to the present.

Prerequisite: *Course 31–32* or the equivalent. M W F 9. 608 Journalism.

### 41–42. Historical and Analytical Studies in the Literature of Music. 4 points. PROFESSOR LOUGHBOROUGH and MRS. MITCHELL.

Required seminar for senior majors to supplement and coordinate previous studies. Th 3–5. [0] 609 Journalism.

### \*107. Bach. 2 points. PROFESSOR MOORE.

Study by analysis, discussion and performance of the chief works of Johann Sebastian Bach.

Prerequisite: *Course 31–32* or the equivalent. T Th 2. 609 Journalism.

### \*115–116. History of Chamber Music from 1700 to 1900. 4 points. PROFESSOR LANG.

An investigation of the history and principles of music for small ensembles. Th 1–3. 703 Journalism.

### \*121–122. History of Music from 1000 to 1600. 4 points. PROFESSOR HERTZMANN.

Discussion of the main stylistic currents during the Middle Ages and the Renaissance. W 1–3. 703 Journalism.

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## \*141. Psychology of Music. 2 points. DR. LIPPMAN.

Analysis of tonal sensations and their basis in acoustics and physiology; investigation of the complex activities of composition, performance, and listening. W 3:30–5:30. 703 Journalism.

## \*142. Philosophy of Music. 2 points. DR. LIPPMAN.

An examination of outstanding conceptions of the nature of music; the role of music in society, its relation to the other arts, and its status as an intellectual activity. W 3:30–5:30. 703 Journalism.

## THEORY

### \*31–32. Harmony. 6 points. MR. DORIS.

A study of triads, tones of figuration, dissonance, and modulation. One hour each week is devoted to ear training. Students who register must be able to play the piano.

Prerequisite: Written permission of the instructor. M W F 1. 609 Journalism.

### \*R31–R32. Harmony. 6 points. MR. DORIS.

The subject matter of 31–32, starting in the Spring Session.

*Spring Session (R31): M W F 11. [3] 609 Journalism.*

*Winter Session (R32): M W F at 11. [3] 609 Journalism.*

### \*R32a. Harmony at the Keyboard. 1 point. MR. SIEBERT.

A laboratory course featuring the subject matter of R32 as applied to the keyboard. Practice in sight-reading, analysis at the keyboard, the harmonization of melodies, and thorough-bass realization will be stressed.

Prerequisite: *Course 31.* Preceding or parallel: *Course 32.* W 2. 609 Journalism.

### \*33. Advanced Harmony. 3 points. PROFESSOR MITCHELL and MR. DORIS.

An analytical study of the elements of chromaticism. The exercises in various styles are taken from the literature and are designed to introduce the student to characteristic features of musical texture.

Prerequisite: *Course 31–32* or the equivalent. Parallel, advised but not required: *Course 35–36.* T 9–11. 703 Journalism. Th 9. 608 Journalism.

### \*R33. Advanced Harmony. 3 points. PROFESSOR MITCHELL and MR. DORIS.

The subject matter of 33, but given in the Spring Session. T 9–11, Th 9. 603 Journalism.

### \*R33a. Harmony at the Keyboard. 1 point. MR. SIEBERT.

A laboratory course featuring the subject matter of 33 as applied to the keyboard.

Prerequisite: *Course 32.* Preceding or parallel: *Course 33.* W 2. 608 Journalism.

### [\*34. Analysis. 3 points. PROFESSOR MITCHELL.

*Not given in 1955–56.]*

Prerequisite: *Course 33.* Recommended, but not required: *Course 35.*

**\*35-36. Counterpoint.** 6 points. MR. SIEBERT.

A study of the five species in two, three, and four parts, strict style. During the spring session students analyze and compose polyphonic pieces in various styles.

Prerequisite: *Course 31-32 or the equivalent.* M W F 10. 608 Journalism.

**39-40. Composition.** 4 points. PROFESSOR LUENING.

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano.

Prerequisite: *Course 33 or written permission of the instructor.* T 3-5. [0] 604 Journalism.

**\*73-74. Orchestration, Conducting, and Score Reading.** 6 points. MR. THOMAS.

Lectures and practice in orchestration and conducting, supplemented by the presentation in class of varied instrumental groups.

Prerequisite: *Course 31-32 or the equivalent and written permission of the instructor.* W 2, F 1-3. 609 Journalism.

**\*131-132. Advanced Composition.** 4 points. PROFESSOR BEESON.

Free compositions in the larger forms, including fugue, for piano, organ, instrumental ensembles, and voices.

Prerequisite: *Course 39-40 or the equivalent and written permission of the instructor.* F 10-12. 703 Journalism.

**\*131a-132a. Advanced Orchestration.** 2 points. PROFESSOR BEESON.

Conference hours in orchestration are open to advanced composition students.

Admission only with the written permission of the instructor. Hour and room to be arranged.

**APPLIED MUSIC**

**NOTE:** Each course in applied music must be taken parallel to a theoretical or historical course in music in order to count toward the degree. A maximum of 12 points may be so counted.

**79, 80. Vocal Instruction.** 2 points. (See Note above.) MR. ANDERSON.

Private lessons in voice production and in interpretation. Coaching and repertory.

No student may register for this course without consultation with the department as early in the registration period as possible. Special fee, \$100 each session; no refunds. One hour weekly to be arranged. 601 Journalism.

**83, 84. Organ Instruction.** 2 points. (See Note above.) MR. WRIGHT.

Individual instruction in the technique of the instrument and a weekly class lesson, or lecture recital, on the interpretation of the works of representative organ composers.

Written permission of the instructor is required.

Consult the Columbia Music Department about registration and fees. Hours to be arranged.

**91, 92. Piano Instruction for Beginners.** 2 points. (See Note above.) MISS HILL.

Private lessons in the technique of the instrument and in interpretation.

No student may register for this course without consultation with the department as early in the registration period as possible. Special fee, \$100 each session; no refunds. Hours to be arranged. 601 Journalism.

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**93, 94. Piano Instruction for Advanced Students.** 2 points. (See Note above.)  
**MR. SHERIDAN.**

Private lessons in the technique of the instrument and in interpretation. Coaching and repertory.

No student may register for this course without consultation with the department as early in the registration period as possible. Special fee, \$160 each session; no refunds. Hours to be arranged. 601 Journalism.

## PERFORMANCE ACTIVITIES

### **Columbia University Orchestra. PROFESSOR SHANET.**

W 7:30–10 p.m. Full orchestra. 113 Low Library.

T 7:30–10 p.m. String section only. 113 Low Library.

In addition to the regular rehearsals for public concerts, there will be reading and workshop sessions in which compositions will be read and studied with no eye toward public performance, and in which qualified members may have the opportunity to read concertos as soloists with the orchestra.

Membership is open to all members of the University community, including students, faculty, staff and alumni, who can meet the musical qualifications.

Audition schedule will be posted on the departmental bulletin board during the registration period.

A limited number of persons interested in managerial work can gain experience as orchestra librarians, personnel managers, and business managers.

### **Columbia University Chorus. MR. WRIGHT.**

M and Th 7:30–9:30 p.m. Chapel Crypt.

The University Chorus is a singing group, the purpose of which is the study and rehearsal of serious choral works from all periods of musical literature. Performances will be given from time to time by the organization itself or in conjunction with other campus musical groups, as circumstances permit. All members of the student body and faculty of the University are eligible to apply for Chorus membership.

Auditions:

September 21–29, 12:30–1:30; 7–9.

First rehearsal:

October 3, 7:30.

**Chapel Choir: MR. WRIGHT.** The Chapel Choir sings regularly on Sunday mornings at the 11 o'clock service and on Monday, Wednesday and Friday at noonday services.

In addition to these activities the Choir gives several special Sunday evening musical services at which works, such as oratorios and cantatas, are presented. Other functions include choral performances at University Convocations, appearances at the Cathedral of St. John the Divine, etc. The large repertory consists of works from all periods of musical literature. It is essential that applicants have at least a moderate ability to sight read music.

All men and women students of the University are eligible. Regular members of the Choir will receive \$150 for the academic year. For further information consult Mr. Wright, Organist and Choirmaster of St. Paul's Chapel. Auditions will be held in the Chapel Crypt Friday, September 23, from 10–12, 2–5; Monday, September 26, 10–12, 2–5; and Tuesday, September 27, from 10–12, 2–5. Rehearsals: Monday, Wednesday and Friday, 5–6:15; Sunday, 9:45 a.m., in the Chapel Crypt.

## PHILOSOPHY

### Chamber Music Society

A voluntary association of performers, both instrumentalists and singers, which meets regularly at times and places to be announced, for the purpose of exploring the literature of music and preparing programs for various campus functions.

### University Band. MR. WILEY.

The marching unit of the band appears at all major athletic events. Membership is restricted to men.

The concert unit gives a number of local and out-of-town concerts during the season and appears at Commencement. Membership is open to both men and women.

An audition schedule will be posted on the bulletin board of the Columbia Music Department during the registration period. T Th 4-6 p.m. 113 Low Library.

## PHILOSOPHY

<sup>1</sup>JOSEPH GERARD BRENNAN, Ph.D., Associate Professor of Philosophy  
*Acting Executive Officer*

JEAN A. POTTER, Ph.D., Assistant Professor of Philosophy

H. STANDISH THAYER, Ph.D., Assistant Professor of Philosophy

JOYCE SIEGAN, A.M., Lecturer in Philosophy

The philosophy department offers both historical and systematic courses in the subject.

A student majoring in philosophy is required to take the following courses, or their equivalents: 1; 5; 22; 61-62, and in the senior year 65-66 (*Senior Seminar*).

Passing of a six-hour written major examination at the end of the senior year is required.

**1 (or R1). Introduction to Philosophy.** 3 points either session. PROFESSORS BRENNAN, POTTER and THAYER, and MISS SIEGAN.

A survey of the various divisions of philosophic inquiry, including discussion of representative problems of knowledge, nature, and value.

Section I M W F 10. [2] 101 Barnard.

Section II M W F 11. [3] 202 Milbank.

Section III M W F 2. [5] 207 Milbank.

Section IV T Th 9:10-10:25. [7] 29 Milbank.

**4. Metaphysics.** 3 points. PROFESSOR POTTER.

An examination of some of the critical problems of metaphysics, with reference to important classic and modern treatments.

Prerequisite: Course 1 or the equivalent. M W F 1. [4] 202 Milbank.

**5. Logic.** 3 points. PROFESSOR BRENNAN.

Presented as a formal science, logic will be distinguished from the methodology of the empirical sciences. Analysis of the formal elements of classical logic will be followed by a brief introduction to symbolic logic. M W F 1. [4] 202 Milbank.

**[6. Analytic Philosophy.** 2 or 3 points. PROFESSOR BRENNAN.

*Not given in 1955-56.]*

A study of the techniques of contemporary philosophical analysis with refer-

<sup>1</sup> Absent on leave, Spring Session.

## BARNARD COLLEGE

ence to such problems as those of meaning, certainty, perception, causality, value, and the presuppositions of the sciences.

Prerequisite: *Course 1 or 5 or written permission of the instructor.*

### **8. Philosophy of Science.** 3 points. PROFESSOR THAYER.

A study of scientific method in the natural and social sciences. Fundamental procedures, such as definition, measurement, and verification will be examined, as well as the function and interpretation of hypothesis, law and theory.

Prerequisite: *Course 1.* M W F 11. [3] 29 Milbank.

### **22. Ethics.** 3 points. PROFESSOR THAYER.

Man and his concern for moral values. Discussion of various views of the good life including: Kantian ethics, utilitarianism, ethics of self-realization, naturalism, positivism, intuitionism.

Prerequisite: *Course 1.* T Th 10:35–11:50. [7] 129 Milbank.

### **41. General Esthetics.** 3 points. PROFESSOR THAYER.

Study and discussion of a number of ancient and modern interpretations of the nature of art. An attempt will be made to formulate and apply the concepts of truth, beauty, and meaning to the objects of esthetic experience.

Open to juniors and seniors, and to qualified sophomores on written permission of the department. T Th 10:35–11:50. [7] 29 Milbank.

### **43. Philosophical Implications of the Modern Novel.** 3 points. PROFESSOR BRENNAN.

The following themes will be developed: the relation of man to nature and to art; the role played in human affairs by moral standards and values; conceptions of the dignity of man; the effect of political forces upon the individual person. Selected works of Joyce, Mann, Kafka, Gide, Malraux, F. M. Ford, and other important novelists of the twentieth century will be discussed.

Open to juniors and seniors and to qualified sophomores on written permission of the department.

This course cannot be counted toward the humanities requirement. M W F 11. [3] 37 Milbank.

### **61–62. The History of Philosophy.** 6 points. PROFESSOR POTTER.

*Winter Session:* Greek philosophy from Thales to Plotinus. *Spring Session:* Medieval and modern philosophy from Augustine to Hegel.

Open to juniors and seniors, and to qualified sophomores on written permission of the department. M W F 10. [2] 301 Barnard.

### **63, 64. Readings in Philosophy.** 2 points. PROFESSOR THAYER, or the instructor in the course to which the extra hours of reading are attached.

This course may be taken only in connection with some other course in philosophy, and with the permission of the department. Hour to be arranged for individual or group conferences. [0]

### **65–66. Senior Seminar.** 4 points. PROFESSOR POTTER.

Required of all majors in the senior year. T 3–5. [0] 29 Milbank.

### **67. Seventeenth and Eighteenth Century British Philosophy and Its Influence.** 3 points. PROFESSOR THAYER.

Conceptions of experience and knowledge in Locke, Berkeley and Hume. The

impact of Newton and seventeenth century science on British philosophy, and the influence of British empiricism on modern philosophy will also be discussed. M W F 2. [5] 29 Milbank.

**[72. American Philosophy. 3 points. ——.]**

*Not given in 1955–56.]*

Prerequisite. *Course 1 or 61–62, except on written permission of the instructor.* This course cannot be counted toward the humanities requirement.

**[74. Schopenhauer and Nietzsche. 2 points. PROFESSOR BRENNAN.]**

*Not given in 1955–56.]*

A study of the writings of these philosophers against the background of nineteenth century romanticism and of their subsequent influence on men of art, letters, and politics.

Prerequisite: *Course 1 or 61–62.*

**75. Seventeenth Century Rationalism. 3 points. PROFESSOR POTTER.**

A study of the metaphysical systems of Descartes, Spinoza, and Leibniz. Consideration will be given to their debt to scholastic thought and to their influence upon subsequent thinkers.

Prerequisite: *Course 1 or 61–62 or the equivalent.* M W F 1. [4] 29 Milbank.

**[76. Twentieth Century Philosophy. 3 points. PROFESSOR BRENNAN.]**

*Not given in 1955–56.]*

A study of philosophies of evolution, process, existence, dialectical materialism, naturalism, and logical empiricism. Readings will include selections from writings of Bergson, Whitehead, Heidegger, Russell, Ayer, representative Marxist philosophers, and critical naturalists.

Prerequisite: *Course 1 or 61–62.*

This course cannot be counted toward the humanities requirement.

**81, 82. The Philosophy of Religion (same as Religion 19, 20). 6 points. PROFESSOR HUTCHISON.**

An analysis of the nature of religion, involving discussion of its relations to theoretical knowledge, both scientific and philosophical. Materials for the analysis will be drawn from the historical religious traditions. The cultural settings of religious forms will be stressed and their meaning and function will be interpreted. In addition, the following issues will be considered: the relation of religion to morality, to theology, and to philosophy; the type of meaning present in religion; the problems of religious knowledge; the content of such basic concepts as God, faith, mysticism, worship, estrangement, reconciliation, religious community, revelation.

Open to all except freshmen.

Prerequisite: *Course 1. Religion 4 and 25 are recommended as parallel courses.* M W 3 and a conference hour. [10] 39 Milbank.

**84. The Philosophy of Education. 3 points. ——.**

This course cannot be counted toward the humanities requirement. M W F 2. [5] 4 Milbank.

# BARNARD COLLEGE

## PHYSICAL EDUCATION

MARGARET HOLLAND, A.M., Associate Professor of Physical Education  
*Executive Officer*

<sup>1</sup>MARION STRENG, A.M., Associate Professor of Physical Education

FERN YATES, A.M., Assistant Professor of Physical Education

LELIA M. FINAN, A.M., Assistant Professor of Physical Education

MARION W. PHILIPS, A.M., Instructor in Physical Education

JEANNETTE SCHLOTTMANN, A.M., Instructor in Physical Education

DONNA BARRAND, M.S., Instructor in Physical Education

The program is organized and administered by the Department of Physical Education, the Medical Department and the Executive Board of the Athletic Association. It is designed to provide the students with knowledge, skills, habits and attitudes concerning health, physical activity and recreation.

The Faculty requires physical education during the freshman, sophomore and junior years. Students are not recommended for the degree if they fail to fulfill this requirement.

The College does not offer a major in physical education. Students who are interested in entering this field should consult a member of the department.

**Medical examinations and posture analysis.** Three complete medical examinations by the College Physician are required of all students during the four years. Two complete posture examinations are required by the Department of Physical Education by the end of the sophomore year. The results of these examinations are expressed in terms of a health and activity grade which determines the program best suited to the individual.

**Freshmen requirement:** Three hours per week on different days. During the first semester two of these hours are prescribed body mechanics and rhythmic fundamentals. The third hour is to be elected.

Section I	M W 2	Section III	T Th 9
Section II	M W 3	Section IV	T Th 10
Section V			T Th 11

**Sophomore and junior requirement:** Two hours per week on different days.

**Program of activities.** Two seasons each semester: Fall-winter; winter-spring. The program is posted on the Physical Education bulletin board two weeks prior to the beginning of each session.

**Fall and Spring:** archery; body mechanics; correctives; golf; modern dance (advanced); riding (special fee—see Handbook); softball; swimming; tennis; volley ball; water ballet.

**Winter each session:** archery (indoor); badminton; co-ed badminton; basketball; basketball officiating; bowling (special fee — see Handbook); correctives — relaxation; fencing; folk-square dance; co-ed folk-square dance; fundamentals; golf (indoor); Greek Games, athletics and/or dance; modern dance; Red Cross life-saving (*Spring Session*, T Th 5–6); riding; swimming and diving; volley ball; water ballet.

In all of these activities students are advised to register according to their skill level, i.e., beginning, intermediate or advanced.

**Prescribed costume.** Students are required to wear the regulation costume indicated for the various activities classes. Approximate cost is \$15. For further information see Handbook.

<sup>1</sup> Absent on leave, Spring Session.

## PHYSICS

Since the objectives and scope of the work in modern dance and fencing are related to practical theater, students who major in English and specialize in Drama are urged to take courses in this area.

### PHYSICS

<sup>1</sup>HENRY A. BOORSE, Ph.D., Professor of Physics  
*Executive Officer*

ALBERT G. PRODELL, Ph.D., Assistant Professor of Physics  
CLAIRES DELAGE, A.B., Assistant in Physics

The demand for well-trained women in the field of physics continues to exceed the supply. Laboratories operated by the Departments of the Navy, Air Force, and Army, the Atomic Energy Commission, and by many industrial firms offer excellent opportunities at various levels of training. Medical physics constitutes an important and growing field of specialization while teaching at the high school or college level continues to offer attractive positions for those more interested in the scholarly tradition. For the student interested in scientific ideas and with some facility in mathematics, physics offers many opportunities for a stimulating and rewarding career.

A student majoring in physics should begin with 3-4 and 7, 8; a student with superior preparation may, on approval of the department, substitute 6 for 3-4. Courses to complete the major will be arranged as far as possible in accordance with the student's interest and preparation.

Other fields: Mathematics: An adequate background in mathematics should be acquired as early as possible. Calculus is a corequisite or prerequisite for *Physics 6* and beyond. Chemistry: one year's work. A course in the biological sciences is recommended.

The major examination consists of the Graduate Record Examination in physics and one hour of conference.

**3-4. General Physics.** 9 points. PROFESSORS BOORSE and PRODELL, and MISS DELAGE.

*Winter Session:* Mechanics, Heat and Sound. *Spring Session:* Optics and Electricity.

Lec. M W F 11. Lab. (2 hours) M 2-4, T 9-11, 2-4, Th 1-3. [3] 233 Milbank.

A third hour following the two-hour laboratory period is devoted to the discussion of physical laws and their application. Preceding or parallel: mathematics through trigonometry.

**3a-4a. General Physics.** 6 or 7 points. PROFESSORS BOORSE and PRODELL, and MISS DELAGE.

Lectures identical with those of Course 3-4. No laboratory work. Discussion-hour optional but advised.

To follow or parallel a laboratory science. M W F 11. [3] 233 Milbank.

NOTE: The following courses require the permission of Professor Boorse.

**R5. Modern Physics.** 3 points. PROFESSOR PRODELL.

An elementary introduction to modern atomic and nuclear physics. Intended

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<sup>1</sup> Absent on leave, Spring Session.

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for students who have completed general physics.

Prerequisite: *Course 3-4.* M W F 2. [5] 233 Milbank.

**\*6. General Physics, I. Mechanics and Heat.** 4 points. PROFESSOR SACHS and DRs. CHRETIEN, FISCHER, HUBBS, MARGOLIS, OREAR, and REDMOND and assistants.

Fundamental laws of mechanics; kinematics; dynamics; work, energy, and power. Elasticity; hydrostatics. Temperature; calorimetry; change of state; gas laws.

Prerequisite: High school physics or equivalent. Parallel: Differential calculus. No credit if preceded by *Course 3-4.* Lec. M W F 9. Two consecutive hours' supervised problem work to be arranged. 301 Pupin.

**\*7. General Physics, II. Electricity and Magnetism.** 3 points. PROFESSOR MITCHELL and DRs. CHRETIEN, FISCHER, HUBBS, MARGOLIS, OREAR, and REDMOND and assistants.

Electrostatics and properties of dielectrics; direct currents and elementary consideration of transients; electromagnetism and properties of ferromagnetic materials; introduction to alternating currents.

Prerequisite: *Course 3-4* or \*6. Parallel: Integral calculus and *Course \*9.* Lec. M W F 9. 301 Pupin.

**\*8. General Physics, III. Light and Atomic Physics.** 3 points. PROFESSOR LEDERMAN and DRs. CHRETIEN, FISCHER, HUBBS, MARGOLIS, OREAR, and REDMOND and assistants.

Lenses and optical systems, interference and diffraction of light, atomic structure and spectra, nuclear phenomena, elementary particles.

Prerequisite: *Course \*7.* Parallel: *Course \*10.* Lec. T Th 10 and S 9. 301 Pupin.

**\*9-10. Physical Laboratory.** 3 points. PROFESSOR LEDERMAN and DRs. CHRETIEN, FISCHER, HUBBS, MARGOLIS, OREAR, and REDMOND and assistants.

Selected quantitative experiments in mechanics, heat, electricity, optics, atomic and nuclear physics.

Prerequisite: *Course 3-4* or \*6. Parallel: *Course \*7-8.* Three consecutive hours to be arranged after the first lecture in *Course \*7-8.*

**\*59. Light.** 3 points. PROFESSOR RAINWATER.

A course in general optics. The first part is devoted to geometrical optics; later, topics in physical optics are discussed and illustrated.

Prerequisite: General physics and integral calculus. Lec. M Th 2:30-4. 301 Pupin.

**\*63-64. Mechanics.** 6 points. PROFESSOR VON NARDROFF.

An introduction to analytical mechanics. The course deals with statics, kinematics, and kinetics of the particle and rigid body and certain problems of elastic bodies.

Prerequisite: General physics and integral calculus. M W F 10. 428 Pupin.

**\*67-68. Electromagnetism and Electronics.** 6 points. PROFESSOR BOOTH.

Electricity and magnetism with emphasis on lumped parameter circuits. Topics discussed will include capacitance and inductance, A.C. circuits, filter networks, and transmission lines.

Second part of course will deal with motion of charged particles in electric and magnetic fields and applications, the properties of vacuum tubes and their application, the design of amplifiers, oscillators, and special devices.

## PSYCHOLOGY

Prerequisite: Any intermediate course in electricity and magnetism (*Course \*7* is equivalent) and differential and integral calculus. T Th S 9. 428 Pupin.

**\*81-82. Intermediate Laboratory Work.** 4 or 8 points. PROFESSOR HAYNER and others.

Experiments will be available in geometrical and physical optics, vacuum tubes and their circuits, atomic physics and nuclear physics. An individual program of experiments will be arranged for each student in accordance with his interests and previous experience.

Immediately after registration and not later than the end of the second day after the beginning of classes, the registrant should consult Professor Hayner about assignment to a laboratory section and the schedule of experiments to be performed.

One four-hour laboratory period weekly for each 2 points to be arranged in consultation with instructor. T 1:10-5; W 1:10-5; Th 6:30-10:30 p.m.; F 1:10-5; S 10-2. Ernest Kempton Adams Precision Laboratory, 602-636 Pupin.

### GRADUATE COURSES

For further information consult the Announcement of the Faculty of Pure Science.

**\*113. Thermodynamics.** 3 points. PROFESSOR BOORSE.  
T F 2:10-3:30 329 Pupin.

**\*115-116. Atomic Physics and Introductory Quantum Theory.** 6 points. PROFESSOR KUSCH.

T Th S 10. 420 Pupin.

**\*119-120. Mathematical Methods in Physics.** 9 points. PROFESSOR FOLEY.  
M W F 9. 329 Pupin.

**\*127-128. Introduction to Theoretical Physics.** 4 points. DR. REDMOND.  
W 6:10-8 p.m. 428 Pupin.

**\*140 or R140. Nuclear Physics.** 3 points. PROFESSOR WU (*Spring Session*). PROFESSOR HAVENS (*Winter Session*).  
T Th 11-12:20. 420 Pupin.

## PSYCHOLOGY

RICHARD PARDEE YOUTZ, Ph.D., Professor of Psychology  
*Executive Officer*

TRACY S. KENDLER, Ph.D., Assistant Professor of Psychology

ROSEMARY PIERREL, Ph.D., Assistant Professor of Psychology

DONALD A. COOK, A.M., Instructor in Psychology

WILLIAM W. CUMMING, Ph.D., Instructor in Psychology

IRVING A. TAYLOR, Ph.D., Lecturer in Psychology

<sup>1</sup>ROBERT J. WILLIAMS, Ph.D., Assistant Professor of Psychology

S. RUTH BROWN, A.B., Assistant in Psychology

JANE WEISS, A.B., Assistant in Psychology

MARTIN H. HACK, A.M., Assistant in Psychology

MARGARET L. STREHAN, A.B., Assistant in Child and Adolescent Psychology

<sup>1</sup> Officer of Columbia University giving instruction in Barnard College.

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The student majoring in psychology studies the basic principles, methods, and findings of psychology and is introduced to their most important applications.

In the work of the major, several kinds of interests are recognized. The groupings of courses given below are arranged in accordance with these interests; the student should select one of the plans A, B, C, D, or E. In addition to the offerings listed in this announcement, advanced senior students with special interests may take appropriate courses in the graduate school.

### A. General psychology major.

A student completing this major will have a good general background for activities in psychology or related fields such as education, business, school psychology, psychometrics, personnel and social work, and similar areas. This major may be completed by fulfilling the following requirements:

Psychology: 1 or R1, 7-8; 9, 12, and other courses selected in consultation with the department to complete the required 28 points.

Other fields: One course in philosophy (3 points), a laboratory course (8 points) in zoology, physics, or chemistry. (For transfer students a laboratory course in biology will fulfill this requirement of the department.)

Suggested groupings of additional psychology courses:

Courses 16, 26, 27, 28, 37 make a good grouping for those interested in work with children.

Courses 24, 26, 37 meet the interests of students in the social sciences, social work, business and practical affairs.

### B. Psychology major with emphasis on education. (See also Education, page 44.)

Beginning with the Class of 1957 the course requirements for the "Psychology major with emphasis on education" are as follows:

Psychology: Courses 1 or R1; 7-8; 9, 12, 16, 27, 28.

Other fields: a laboratory course (8 points) in zoology, physics, or chemistry (transfer students may fulfill this requirement with biology); *History* 43, *Philosophy* 84, *Education* 1-2, 3-4. Students are reminded that before they may take practice teaching (*Education* 3-4) they must have written permission from the Dean of Studies.

### C. Psychology major with emphasis on business and personnel.

A student interested in going directly into business or the personnel field or in taking further training in this area may complete a major by fulfilling the following requirements:

Psychology: 1 or R1, 7-8; 9, 12, and other courses selected in consultation with the department to complete the required 28 points.

Other fields: *Economics* 1-2, 17, 18, and either 19 or 20.

### D. Psychology major in preparation for graduate study.

The following major is recommended for students who plan to do graduate work in psychology or clinical psychology. (This does not apply to students planning to enter schools of social work, schools of education, or other areas related to, but not directly in, graduate departments of psychology.)

Psychology: 1 or R1, 7-8; 9, 12, 108, and other courses selected in consultation with the department to complete the required 28 points.

Other fields: One-year laboratory courses in two of the following—zoology (or

## PSYCHOLOGY

biology), physics, or chemistry; mathematics through analytic geometry; one course in philosophy (3 points). One semester of calculus is strongly recommended.

### E. Psychology major with emphasis on clinical psychopathology.

This new major, started in 1955, was developed by the Payne Whitney Clinic and the Psychology Department. It is designed to improve the student's understanding of the work on psychiatric hospital wards. With proper preparation this might lead to the position, Clinical Psychopathological Assistant, in psychiatric hospitals. In this new position the duties would include group rehabilitation activities with patients, clinical reports, and research observations. The following courses are required:

Psychology. 1 or R1, 7-8, 9, 12, 21, 37, and six points of training in the clinic. The six points consist of a three-point project each semester in the senior year (R48 and 48) and require two half-day sessions at the Payne Whitney Psychiatric Clinic of The New York Hospital. Admission to the Payne Whitney sessions requires prior completion of a course in abnormal psychology and written permission of the departmental chairman.

Other fields: One course in philosophy (3 points), a laboratory course in zoology, physics, or chemistry (8 points). (For transfer students a laboratory course in biology will fulfill this requirement of the department.)

### The major examination:

This consists of sections on: (1) general information and integration (three hours); (2) experimental designs and techniques (one hour); and (3) areas of special interest (one hour). Students fulfilling any one of the five plans will have completed preparation for the major examination.

### 1 (or R1). Introduction to Psychology. 4 points. PROFESSORS KENDLER and PIERREL, MR. COOK, and DR. CUMMING.

An introduction to the chief facts, principles, and problems of normal adult psychology, through systematic study of a text, lectures, exercises, and reading in special fields. This course is a prerequisite for all other courses in psychology. [11]

#### *Winter Session (1):*

Section I	M W F	9.	301 Milbank.
Section II	M W F	10.	309 Milbank.
Section III	M W F	11.	4 Milbank.
Section IV	T Th	10:35-11:50.	215 Milbank.

#### *Spring Session (R1):*

Section I	M W F	10.	309 Milbank.
Section II	M W F	11.	4 Milbank.
Section III	T Th	10:35-11:50.	215 Milbank.

### 7-8. Experimental Psychology. 8 points. PROFESSORS KENDLER, PIERREL, and WILLIAMS, MR. COOK, DR. CUMMING and DR. TAYLOR.

The course presents the chief problems, methods, and results of experimental psychology. Each student conducts a series of typical individual experiments, participates in certain group experiments, prepares systematic reports of results, and is introduced to the literature of experimental psychology.

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Prerequisite: *Course 1* or the equivalent. Written permission required for specific section. Each section is limited to 16 students. [11]

Section I	M W 1-4.	301 Milbank.
Section II	{M 1-4. }F 1-4.	304 Milbank. 301 Milbank.
Section III	W F 1-4.	304 Milbank.
Section IV	T Th 9-12.	301 Milbank.
Section V	T Th 2-5.	304 Milbank.
Section VI	T Th 9-12.	304 Milbank.

### 9. Introduction to Psychological Statistics. 3 points. MR. COOK.

Designed to acquaint students with quantitative methods in psychology and allied subjects. Topics included are a review of basic statistics, psychological scaling methods, statistical estimation and prediction, testing hypotheses, measuring reliability and validity, and theory of test construction.

Prerequisite: *Course 7-8.* M W F 11. [3] 315 Milbank.

### 12. Psychological Tests. 3 points. PROFESSOR PIERREL.

An introduction to standardized scales of mental measurement through demonstration of their nature, use, and interpretation, and practice in their administration. Each student must bring a child to the laboratory to be tested twice during the semester, at times other than those scheduled for the class.

Prerequisite: *Course 7-8.* T 2 and Th 1-4. [9] 233 Milbank.

### 16. Educational Psychology. 3 points. DR. CUMMING.

A survey of the applications of psychology to modern educational practice and theory. Among the topics especially emphasized are motivation, social and individual development, and the appraisal and direction of learning.

Prerequisite: *Course 1* or the equivalent. Open to all except freshmen. M W F 1. [4] 215 Milbank.

### 21. Abnormal Psychology. 3 points. PROFESSOR YOUTZ.

A general survey of the field of psychopathology, the history of the subject, the more common forms of mental inadequacy and disturbance and their psychological interpretation, including the principles of mental hygiene and psychotherapy. Each class makes a trip to a mental hospital for clinical demonstration of certain psychoses.

Open to juniors and seniors who have had *Course 1* and one or more additional courses in psychology. T Th 10, and consultation in connection with readings for the third point. [7] 203 Milbank.

### 24. Applied Psychology. 2 or 3 points. PROFESSOR YOUTZ.

Applications of psychology to problems of efficient study, of vocational guidance and selection, personnel, industrial efficiency, advertising and selling, clinical work, treatment of delinquents and criminals, and other problems of practical interest.

Prerequisite: *Course 1* or the equivalent. T Th 11, and additional conferences on a project or paper for the third point. [8] 202 Milbank.

### 25. Physiological Psychology. 3 points. PROFESSOR PIERREL.

A study of psychological functions as related to physical structure and physiology. Topics will include sensation and perception, learning and retention, personality disorders, and intellectual defect.

Prerequisite: *Course 1* or the equivalent and either: *Course 7-8*, or *Zoology 1-2*, or an equivalent. T Th 10:35-11:50. [8] 311 Milbank.

## PSYCHOLOGY

### **26. Psychology of Personality.** 3 or 4 points. MR. COOK.

A survey of the contemporary methods and views of the description of the individual, including the factors in the development of personality and the practical aspects of personal adjustment in changing society. Attention is given to the contributions from experimental psychology.

Prerequisite: *Course 1* or the equivalent. M W F 11, and conferences in connection with a paper for the fourth point. [3] 315 Milbank.

### **27. Psychology of Childhood.** 4 points. PROFESSOR KENDLER.

A detailed study of human behavior in infancy and early childhood, with special emphasis on learning, emotional development, social adjustment, and modern conceptions and methods of child training and guidance. Observation of children in a nursery school for one hour each week.

Prerequisite: *Course 1* or the equivalent. M W F 10, and conferences in connection with reports for the fourth point. [2] 335 Milbank.

### **28. Psychology of Adolescence and Maturity.** 3 or 4 points. PROFESSOR KENDLER.

The mental, social, and emotional development of adolescents and mature persons will be studied, special attention being given to such topics as guidance, adjustment, interests, motivation, home problems, sex relations, recreation and delinquency.

Prerequisite: *Course 27*. M W F 10, and conferences in connection with a project or paper for the fourth point. [2] 335 Milbank.

### **37. Social Psychology.** 3 or 4 points. DR. CUMMING.

Cultural and group influences upon personality development and participation in society. Motives and frustrations in relation to social behavior; social learning, communication, social roles and social interaction; social-psychological interpretation of public opinion, propaganda, leadership, mass behavior, social movements, prejudice, social change, and social conflicts. Contributions from psychology, sociology, anthropology, and psychiatry toward a systematic and useful integration in the field of social relations.

May count toward either a sociology or a psychology major. Prerequisite: *Course 1* or *Sociology 1-2*. M W F 3, and conference hour in connection with a project or paper for the fourth point. [10] 315 Milbank.

### **47. Advanced Experimental Problems.** 3 points. PROFESSOR YOUTZ.

Original investigations will be planned and undertaken in learning, reasoning, perception, and other areas of interest to the individual class members. Designed chiefly for students who intend to do graduate work in psychology or related fields, or who show interest and capability in the conduct of research.

Open on written permission of the instructor to students who have had *Course 7-8*. Hours to be arranged. [0]

### **48. Individual Projects.** 1, 2, or 3 points. Members of the department.

Qualified students will be guided and supervised in special projects or in the investigation of approved problems.

Open only to majors who have had *Course 7-8* on written permission of the department. Hours to be arranged. [0]

### **108. Development of Psychological Concepts.** 3 points. PROFESSOR YOUTZ.

A critical analysis of stages in the development of psychological concepts. Application to reports in current journals, both experimental and clinical. Considera-

## BARNARD COLLEGE

tion of kinds of experiments in psychological schools and systems. Each student will choose an area of interest and report on its origins and present status.

Prerequisite: Course 7-8 or the equivalent. T Th 10, and conferences in connection with a report for the third point. [0] 203 Milbank.

### RECREATIONAL LEADERSHIP

MARGARET HOLLAND, A.M., Associate Professor of Physical Education, and members of the Departments of Psychology and Sociology. Outside agencies which specialize in the fields of music, crafts, and story-telling also contribute to this course.

#### 1 (or R1). Introductory Course. 2 points.

This course is planned to give students an intelligent understanding and appreciation of the whole field of recreation. It consists of lectures, discussions, practice and participation in recreational activities, such as community music, arts and crafts, informal dramatics, story-telling, games, and other informal social activities.

Participation in extracurricular activities related to recreation and social work is especially recommended for practice and experience. M W 4 and a third hour for field work. 407 Barnard.

### RELIGION

URSULA M. NIEBUHR, S.T.M., M.A. (Oxon.), D.D., Associate Professor of Religion  
*Executive Officer*

<sup>1</sup>JOHN HUTCHISON, B.D., Ph.D., Professor of Religion, Executive Officer of the Department of Religion, Columbia University

<sup>1</sup>HORACE I. FRIESS, Ph.D., Professor of Philosophy

<sup>1</sup>JOHN M. KRUMM, B.D., Ph.D., Chaplain of the University

<sup>1</sup>HARRY WILLMER JONES, A.B., LL.B., LL.M., Professor of Law

<sup>1</sup>OTIS R. RICE, JR., D.D., Associate in Religion

<sup>1</sup>MARGUERITE BLOCK, Ph.D., Associate in Religion

<sup>1</sup>THEODOR H. GASTER, Ph.D., Associate in Religion

<sup>1</sup>GEORGES FLOROVSKY, Ph.M., S.T.D., Adjunct Professor of Religion

<sup>1</sup>ROBERT GORDIS, M.H.L., Ph.D., D.D., Adjunct Professor of Religion

<sup>1</sup>HOWARD A. JOHNSON, A.B., B.D., S.T.M., Adjunct Professor of Religion

<sup>1</sup>WILLIAM R. O'CONNOR, S.T.L., Ph.D., Adjunct Professor of Religion

<sup>1</sup>JAMES A. PIKE, J.S.D., D.D., J.U.D., Adjunct Professor of Religion and Law

<sup>1</sup>WILHELM PAUCK, D.Theol., Adjunct Professor of Religion

<sup>1</sup>JUDAH GOLDIN, A.M., D.H.L., Adjunct Professor of Religion

<sup>1</sup>FRANK WEKERLE, A.B., Lecturer in Religion

The purpose of the program is to introduce the whole field of religion and to present the documents, history and thought of the great religious traditions of the West.

The major requirements are:

- Required courses are: 9, 10; 45, 46; 83, 84; 85, 86, and one of the following full-year courses or combinations of courses: 1, 2; 19, 20; 22; 31.

<sup>1</sup> Officer of Columbia University offering courses open to Barnard students.

## RELIGION

2. Students will be required to take 28 points in religion. As the study of religion involves other related fields in the humanities and social sciences, a student majoring in religion is also required to take courses amounting to 12 points in two of the following departments; anthropology, English, fine arts, government, Greek and Latin, history, philosophy, sociology. These courses should be selected in consultation with the major adviser.

3. If a student intends to pursue graduate work, study of languages (such as Hebrew,<sup>1</sup> Greek, Latin, German) is advised. In addition to the language courses given at Barnard College, other language courses are open to Barnard students at Columbia.

### The major examination consists of:

1. Two three-hour papers; the first, general and interpretative of the whole field studied; the second, historical, designed to test the material studied in connection with the thought and history of Christianity and Judaism. 2. The major senior essay written in connection with Courses 85, 86 to be submitted before April 1.

#### **1, 2. Introduction to Religion: Its Nature and Major Traditions.** 6 points. MR. WEKERLE, assisted by members of the department.

*Winter Session:* An introductory presentation of methods and problems in the field of religion, followed by surveys of religion in primitive cultures; Egyptian and Mesopotamian religions; Hinduism, Buddhism, and Confucianism.

*Spring Session:* Judaism, and the major traditions of Christianity and Mohammedanism, with a concluding survey of religious movements in America. The emphasis is on literature and history.

Some lectures will be given by various members of the department in areas of their special competence. Lec. M 6:10-8. Conference: Th 2:10-3:00. 208 Pupin.

#### **4. Religious Elements in the Heritage of Western Thought.** 2 points. PROFESSOR NIEBUHR.

Religious concepts which have entered into the life and institutions of Western civilization; their derivation from Biblical sources and their development in Western history. Discussion of views of man, his ethical ideals and moral capacities; of the justice and righteousness of God; of history as the sphere of responsibility and decision. T Th 10. [7] 37 Milbank.

#### **5. Elements of Christianity.** 2 points. DR. KRUMM.

An introduction to the main Christian doctrines as dealt with by representative Christian thinkers. The sources of doctrines of God, man, sin, Christ, salvation, the Holy Spirit, the Church, the Christian life, eschatology. T Th 10. 505 Business.

#### **7. Introduction to Judaism.** 2 or 3 points. DR. GORDIS.

A survey of the basic tenets of Judaism, its world view and way of life, including an examination of the nature and relation of thought and practice in Conservative, Orthodox, and Reform Judaism. Th 4:10 to 6 and third hour to be arranged for third point. 509 Business.

#### **9, 10. The Bible: History, Literature, and Interpretation of the Old and New Testaments.** 6 points. PROFESSOR NIEBUHR.

*Winter Session:* The beginnings and nature of Hebrew religion. Myths of the

<sup>1</sup> A limited number of scholarships are available to Barnard students for work in Hebrew in General Studies on application to Dean Hacker.

## BARNARD COLLEGE

ancient world. Stories of the patriarchs. Moses and the covenant. The development of the nation. The character and significance of the prophetic movement. The exile, and subsequent religious developments.

*Spring Session:* The character of the New Testament writings, how the gospels came into existence, and the content of the early Christian belief; the letters and thought of St. Paul, the book of Acts and the spread of Christianity; the gospel in the gentile world; persecutions and heresies, and final New Testament writings.

Lectures T Th 11, and conference sections either M 1:10 or Th 1:10. [8] 37 Milbank.

### [11. Ethical Issues in Judaism. 2 or 3 points. PROFESSOR GORDIS.]

*Not given in 1955-56.]*

The place of ethics in Rabbinic, medieval and modern Judaism. The concept of human nature in Jewish tradition. Sex, family and marriage, status of women. Attitudes toward labor, property, social justice and philanthropy, "the stranger" and the underprivileged, patriotism, war and peace, nationalism and the international community.

### 14. The Teachings of the Synagogue Fathers. 3 points. PROFESSOR GOLDIN.

An exploration of the principal religious and intellectual issues of Judaism in New Testament times; the authority of tradition, the study of Torah, man's obligation to himself, his fellows and God; as illustrated by a detailed study of *The Wisdom of the Fathers* (Pirke Aboth). M 4:10-6. 318 Hamilton.

### 19, 20. The Philosophy of Religion (same as Philosophy 81, 82). 6 points. PROFESSOR HUTCHISON.

An analysis of the nature of religion, involving discussion of its relations to theoretical knowledge, both scientific and philosophical. Materials for the analysis will be drawn from the historical religious traditions. The cultural settings of religious forms will be stressed and their meaning and function will be interpreted. In addition, the following issues will be considered: the relation of religion to morality, to theology, and to philosophy; the type of meaning present in religion; the problems of religious knowledge; the content of such basic concepts as God, faith, mysticism, worship, estrangement, reconciliation, religious community, revelation.

Open to all except freshmen.

Prerequisite: *Philosophy 1. Religion 4* also is recommended. M W 3 and conference hour. [10] 39 Milbank.

### 21. Religion in the Ancient Near East. 2 points. DR. GASTER.

The beliefs, practices and myths of the Canaanites, Hittites, Babylonians and Assyrians, interpreted in the light of comparative religion and folklore, with special attention to the basic concepts and categories of ancient Near Eastern thought, and to Biblical and classical connections. M W 3. 401 Low.

### 22. Oriental Religions. 2 points. DR. BLOCK.

An introduction to the institutions, arts, and philosophies connected with the major religious traditions native to India, China, and Japan; Hinduism, Buddhism, Confucianism, Taoism, and Shintoism. Recent developments in religion conditioned by the meeting of Eastern and Western civilization will be given attention.

Open to all except freshmen. M W 3. 401 Low.

### 24. Christian Ethics. 2 points. DR. KRUMM.

Sources of Christian ethical values and norms: in prophetic and apocalyptic background, in teachings of Jesus and Paul. Church and world in the Fathers, Aquinas, Reformers and modern Christianity. Treatment of contemporary issues

in Christian ethics (war, race, marriage, social justice) by papers and readings.  
T Th 10. 505 Business.

**25, 26. The Ethics of the Bible and the Judeo-Christian Tradition and Their Relation to Contemporary Issues.** 6 points. PROFESSOR NIEBUHR.

The ethical principles of biblical thought: their subsequent development in Jewish and Christian history, and their relevance to contemporary economic, political, and social issues. *Winter Session:* The integral place of ethics in the context of the biblical conception of man, his world, and God. The biblical attitude toward moral law and human freedom. The conception of personal fulfillment and the concern for social justice. *Spring Session:* Biblical ethics and the social order. Absolute standards and historically relative norms. Problems of political and social life; of race, sex and the family. The nation and the church under God.

*Course 26* may be counted toward the contemporary society requirement.

Open to all except freshmen. Lectures and weekly class discussions. M W F 9.  
[1] 39 Milbank.

**29. Ritual and Worship.** 2 points. DR. GASTER.

A survey of the principal forms of ritual and types of worship in primitive and advanced religions with special reference to underlying concepts and historical development. T Th 4:10-5. 613 Hamilton.

**33, 34. The Religious and Metaphysical Bases of Western Social and Political Thought.** 6 points. PROFESSOR STEWART.

An analysis of the presuppositions of modern Western institutions. *Winter Session:* An examination of the classical, biblical, and medieval background. *Spring Session:* An intensive study of Hooker, Hobbes, Spinoza, Hume, Kant, and Hegel.

Open to all except freshmen. T Th 9:10-10:25. [6] 409 Barnard.

**35, 36. Special Reading.** 2 or 4 points. PROFESSOR NIEBUHR.

Designed to give the student opportunities for related readings in connection with other courses in the department. Each student is directed to a reading program under the supervision of an instructor. Conference hours to be arranged.  
[0]

**[40. The Prophets and Sages of Israel.** 2 points. -----.

*Not given in 1955-56.]*

A more specialized study of the prophetic and wisdom literature of the Old Testament, with emphasis on the particular contributions to biblical thought made by Amos, Hosea, Isaiah of Jerusalem, Jeremiah, Ezekiel, Second Isaiah and the author of the Book of Job. Particular attention will be given to their conceptions of God, man and history.

Prerequisite: *Course 9* or the equivalent.

**[43-44. The Historical Background and Early Beginnings of Christianity.** 6 points. PROFESSOR NIEBUHR.

*Not given in 1955-56.]*

A study of the historical, philosophical and religious background of Christianity: Hellenism and Judaism of the pre-Christian era; answers to the quest for salvation; forms of the Christian answer and their relation to contemporary thought.

*Winter Session:* Jesus and Pharisaism, the Dead Sea Scroll sect, oral tradition and the historical Jesus; Jewish and Gentile Christianity, the pre-Pauline Hellenistic Church, Paul and the mystery religions, the Johannine reinterpretation.

*Spring Session:* The developing gospel; early writers in the church, their purpose and relation to the thought of their age; controversies and heresies, the great formulators of Christian thought to Augustine.

Prerequisite: *Courses 9, 10* or the equivalent.

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**45, 46. History of Religious Thought in the Christian West.** 6 points. PROFESSOR HUTCHISON.

An exposition and analysis of the thought of theologians and movements in the context of the history of the western world. Emphasis will be placed upon the formation and historical influence of religious ideas within the Christian movement and upon their relation to the cultural forces of the time. Reading from the writings of the theologians, including early Fathers, medieval theologians, and the Reformers, liberal and contemporary theologians.

Open only to juniors and seniors. T Th 2:10–3:00. 413 Hamilton.

**47–48. Readings in History of Religious Thought in the Christian West.** 2 points. PROFESSORS HUTCHISON and NIEBUHR.

To be taken only in conjunction with Course 45, 46. Hour for individual or group conference to be arranged.

**53. A Survey of Eastern Orthodox Theology.** 3 points. DR. FLOROVSKY.

The foundations in thought of the spiritual life of the Orthodox Church. The historic background and present state of the Orthodox Churches and their impact on the cultural life of the nations concerned. The development of Orthodox theology and the formation of the principal liturgies. M Th 7–8:15 p.m. 516 Hamilton.

**55. A Survey of Roman Catholic Theology.** 3 points. DR. O'CONNOR.

After an introduction to the nature, scope, and sources of theology, the following topics will be discussed: God, the Trinity, Creation, the Incarnation, Redemption, the Doctrine of the Church, grace, the sacramental system, and eschatology. The doctrines will be presented in their historical background; at the same time their connections with the liturgy and devotional life of the Church will be considered. T F 7–8:15 p.m. 224 Pupin.

**[57. The Liturgy, Worship, and Institutions of the Roman Catholic Church.]** 3 points. DR. O'CONNOR.

*Not given in 1955–56.]*

A comprehensive survey of the organization, government, and liturgical life of the Church. The course will include the origin and growth of the hierarchy, the clerical and lay state, religious orders, the rites and ceremonies used in the administration of the sacraments and in the Mass, liturgical languages and music, the liturgical year, the sacramentals, the devotional and spiritual life of the Church.

**58. History of Religion in America** (same as **History 58**). 3 points. PROFESSOR HARRINGTON.

The history of religious thought and institutions in the United States from colonial times to the present. Special attention will be paid to the developments of the nineteenth and twentieth centuries. M W F 2. [5] 29 Milbank.

**[60. Contemporary Movements in Roman Catholic Thought.]** 3 points. DR. O'CONNOR.

*Not given in 1955–56.]*

### SEMINAR COURSES

**[81, 82. Symposium: Interpreters of Life.]** 6 points. ———.

*Not given in 1955–56.]*

The course assembles major historians, poets, and philosophers whose works are great commentaries on Western life and institutions. The aim is to introduce stu-

## RELIGION

dents to a wide range of ideas through primary sources basic for later studies of society and culture, as well as of religion and philosophy.

**83, 84. Major Seminar.** 4 points. PROFESSOR NIEBUHR.

Consideration and discussion of selected subjects which will relate and supplement the students' reading in other courses. Written and oral reports.

Required of all majors in the senior year. T 3-5. [13] 39 Milbank.

**85, 86. Senior Essay.** 4 points.

Required of all majors in the senior year. Reading and reports as preparation for writing of a long paper under the supervision of a member of the department. Papers to be due by April 1 so that they may be read, criticized and discussed. Th 3-5. [0] 39 Milbank.

**Colloquium Rel. 1-2.** 8 points. PROFESSORS FRIESS and ANDERSON.

Significant landmarks in the religious tradition of the West from the Gilgamesh Epic through the sixteenth century.

Open only to juniors and seniors. Written permission of the instructors required. Registration limited to 15. M 7:30-9:30 p.m. 708 Philosophy.

### GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. Their description may be found in the Announcement of the Faculty of Philosophy. The following courses are recommended for students who have the written permission of the department.

**107-108. The Development of Biblical Literature and Thought.** 2 or 3 points. PROFESSOR NIEBUHR.

M W 11, and conference hour to be arranged. 227 Pupin.

**110. Religious and Legal Aspects of Church-State Relations.** 2 points. PROFESSORS PIKE and JONES.

Joint seminar with the School of Law. Admission on permission of either instructor. M 4:10-6. 511 Philosophy.

**115. The Psychology of Christian Personality.** 3 points. DR. RICE.

T 6:30-8:15 p.m. 609 Hamilton.

**116. Inter-personal Relationships in the Family and Marriage.** 3 points. DR. RICE.

T 6:30-8:15 p.m. 609 Hamilton.

**[117-118. History of Religious Thought in the Christian East.]** 6 points. PROFESSOR FLOROVSKY.

*Not given in 1955-56.]*

**[120. The History of Judaism.]** 3 points. PROFESSOR GORDIS.

*Not given in 1955-56.]*

**122. The Apocrypha.** 3 points. PROFESSOR GORDIS.

Th 4:10-6. 613 Hamilton.

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[124. Studies in Thomistic Theological Thought. 3 points. PROFESSOR O'CONNOR.

*Not given in 1955-56.]*

126. Protestantism and Culture. 3 points. PROFESSOR PAUCK.

W 7-8:40 p.m. 508 Butler.

130. History of Russian Religious and Philosophical Thought. 3 points. PROFESSOR FLOROVSKY.

M Th 7-8:15 p.m. 318 Hamilton.

131-132. Church and Civilization in Byzantium. 6 points. PROFESSOR FLOROVSKY.

M Th 8:25-9:40 p.m. 316 Hamilton.

134. Kierkegaard and Religious Existentialism. 3 points. PROFESSOR JOHNSON.

M 7-8:40 p.m. 311 Fayerweather.

[191-192. Religious Ideas of the Reformers. 2 points. -----.

Admission on permission of instructor.

*Not given in 1955-56.]*

## SOCIOLOGY

MIRRA KOMAROVSKY, Ph.D., Professor of Sociology  
*Executive Officer*

BERNARD BARBER, Ph.D., Associate Professor of Sociology

<sup>1</sup>GLADYS MEYER, Ph.D., Assistant Professor of Sociology

<sup>2</sup>HERBERT HYMAN, Ph.D., Associate Professor of Sociology

RICHARD E. BROTMAN, A.M., Visiting Lecturer in Sociology

RENÉE CLAIRE Fox, Ph.D., Lecturer in Sociology

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, religion, science, ideology, etc. The study of rural and urban communities, human relations in groups, social structure and personality are other areas of sociological interest. So also is the understanding of social change. Sociology is concerned not only with the normal functioning of social institutions but also with social problems such as racial and minority problems, industrial conflict, crime, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. However, comparative materials from other societies, pre-literate and more highly developed, are extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students can learn important facts about scientific method in general.

A student majoring in sociology will be required to take:

*Economics 1-2, Sociology 1-2, and other sociology courses to be selected in consultation with major adviser. Courses 31, 33, 34, 35, 38, 41 are strongly recommended. Economics 1-2 does not count toward the major. Economics 17 and Psychology 37 are the only courses given outside the department which may count toward the major.*

<sup>1</sup> Absent on leave, Spring Session.

<sup>2</sup> Officer of Columbia University giving instruction in Barnard College.

## SOCIOLOGY

Other social sciences: In view of the essential unity of the social sciences, a major in sociology is required to take courses amounting to at least 12 points to be distributed among two of the following departments: anthropology, economics, geography, government, history, philosophy, psychology, religion.

See also Interdepartmental Offerings, page 29.

**Major examination:** A three-hour written examination in addition to the Graduate Record Examination.

**1-2. Introduction to Sociology.** 6 points. PROFESSORS KOMAROVSKY, MEYER, and BARBER.

An introduction to sociological analysis with emphasis on contemporary American society. *Winter Session:* The structure of society. The family and the other major social institutions; class stratification; various types of social groups; social codes and social control; ecology and social organization of modern communities. *Spring Session:* Social change and social problems. Social factors in contemporary problems, such as population and migrations, race and group conflict, community disorganization and crime. Problems of social reorganization. [17]

*For all except freshmen:*

Section I M W F 10. 37 Milbank.  
Section II M W F 11. 309 Milbank.  
Section III T Th 9:10-10:25. 215 Milbank.

*For freshmen and sophomores:*

Section IV M W F 2. 309 Milbank.

**21 (formerly 21-22). Introduction to Social Work.** 3 points. PROFESSOR MEYER.

A survey of the field of social work. This course examines the structure of welfare in the United States, presents the relation between public and private programs, and discusses possible future trends. Attention is given to the profession of social work and to the basic principles upon which the practice of social work is based.

No field work is required.

Prerequisite: *Course 1-2, Economics 1-2, or Psychology 1.* T Th 9:10-10:25. [6] 309 Milbank.

**31. The Family.** 3 points. PROFESSOR KOMAROVSKY.

General study of the contemporary American family, dealing with social interaction at successive stages of family life, from courtship through parenthood and old age. Changing courtship mores, social and personality factors in mate selection. The marriage relationship, factors in marriage adjustment and maladjustment. The problems of modern women. The child in the family, the family as a cradle of personality. Family disorganization and divorce. Programs for family reorganization.

Open to juniors and seniors. M W F 11. [3] 215 Milbank.

**33. The Community. I. Rural-Urban Sociology.** 3 points. PROFESSOR MEYER.

The growth and structure of the community. Forms of the community in rural and urban life. Cultural, ecological, and institutional patterns in the growth of community life and organization in city and country. Social structure and processes exemplified in recent studies of communities in America and abroad.

Prerequisite: *Course 1-2.* M W F 1. [4] 37 Milbank.

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**[34. The Community. II. Ethnic and Minority and Intergroup Relations. 3 points. PROFESSOR MEYER.**

*Not given in 1955-56.]*

The composition and distribution of populations; major and minority groups, and their intergroup relations, particularly within the United States. The role of these groups in the structure of the community, their particular cultures, internal organization, and problems of individual adjustment.

Prerequisite: *Course 1-2.*

**35. American Social Classes. 3 points. PROFESSOR BARBER.**

Analysis of modes of living, and group alignments at different social levels in American urban life. Problems of power; the extension of bureaucracy and the growth of white-collar occupations.

Prerequisite: *Course 1-2. M W F 2. [5] 311 Milbank.*

**38. Comparative Social Institutions. 3 points. PROFESSOR BARBER.**

The social institutions that exist in all societies; their different forms. Comparative materials from non-literate, other civilized (China, India, medieval Europe), and contemporary (U. S., Soviet Russia, France, Britain) societies. Principles of institutional patterning and change.

Prerequisite. *Course 1-2. M W F 2. [5] 311 Milbank.*

**R39. The Sociology of Occupations. 3 points. PROFESSOR BARBER.**

Theoretical and practical problems of various types of work and workers (e.g., executives, entrepreneurs, professionals, laborers, white-collar workers, etc.) in modern society with comparative materials from other societies.

Prerequisite: *Course 1-2. M W F 3. [10] 319 Milbank.*

**41. Recent Sociological Theories. 3 points. PROFESSOR KOMAROVSKY.**

A critical appraisal of the works of some American and European sociologists, particularly as they bear on the problems of social change and social movements.

Prerequisite: *Course 1-2. T Th 11. [8] 202 Milbank.*

**42. Social Problems and Social Movements. 3 points. PROFESSOR KOMAROVSKY.**

The natural history of social problems. Some selected social problems will be traced from their emergence through the various stages of social reform. The social and psychological aspects of social movements. Types of resistance to social reform. Techniques of social reform. The course will draw upon historical material as well as the study of some contemporary reform movements. Individual projects.

Prerequisite: *Course 1-2. M W F 11. [3] 215 Milbank.*

**43, 44. Methods of Sociological Research. 6 points. PROFESSOR HYMAN.**

This course is designed to acquaint the student with the logic and methods of sociological research. The various steps of the scientific method from the development of hypotheses and the formulation of the research design to the final analysis of the data are examined. Specific researches are reviewed as illustrations of various types of modern research methods.

Prerequisite: *Course 1-2.*

*Course 43 is a prerequisite for Course 44 except by special permission of the department. T Th 2:10-3:25. [9] 215 Milbank.*

## SPANISH

**97, 98. Senior Seminar.** 2 or 6 points. PROFESSORS KOMAROVSKY, MEYER, and BARBER.

*Winter Session:* Group seminar to be conducted by PROFESSOR BARBER. *Spring Session:* Individual projects under the supervision of all members of the department.

Open to junior and senior majors. M W F 10. [0] 219 Milbank.

**132. Recent Trends in Family Research.** 3 points. PROFESSOR KOMAROVSKY.

Recent developments in family theory and research. Representative studies will be examined in various areas of current research such as culture and personality, ethnic and class variations in family patterns, marriage adjustment and others.

Prerequisite: Course 1-2. M W 11. [3] 219 Milbank.

**Psychology 37. Social Psychology.** 3 or 4 points. DR. CUMMING.

Cultural and group influences upon personality development and participation in society. Motives and frustrations in relation to social behavior; social learning, communication, social roles, and social interaction. Social psychological interpretation of public opinion, propaganda, leadership, mass behavior, social movements, prejudice, social change and conflict. Contributions from psychology, sociology, anthropology, and psychiatry toward a systematic and useful integration of the field of social relations.

Credit in either sociology or psychology. Prerequisite: *Psychology 1 or Sociology 1-2.* M W F 3, and conference hour in connection with a project or paper for the fourth point. [10] 315 Milbank.

### GRADUATE COURSES

Certain graduate courses given at Columbia University are also open with the consent of the department and the Committee on Programs and Standing of Barnard College to qualified seniors. A description of these courses will be found in the Announcement of the Faculty of Political Science. Among those suitable for Barnard students the following are recommended:

\***118. Sociology of Knowledge.** 3 points. PROFESSOR BARBER.

\***135. The Study of Public Opinion.** 3 points. PROFESSOR LAZARSFELD.

\***161. Political Sociology.** 3 points. PROFESSOR LIPSET.

\***193. Public Opinion Research.** 3 points. PROFESSOR HYMAN.

\***223. Population Theory and Methods.** 3 points. PROFESSOR DAVIS.

\***284. Social and Psychological Factors in National Planning.** 3 points. PROFESSOR LYND.

## SPANISH

**AMELIA A. DE DEL RÍO, A.M., Associate Professor of Spanish  
Executive Officer**

**EUGENIO FLORIT, LL.D., Associate Professor of Spanish**

**MARGARITA DA CAL, Ph.D., Assistant Professor of Spanish**

**<sup>1</sup>LAURA R. DE GARCÍA-LORCA, L.F.L., Instructor in Spanish**

**ROBERT C. WOEMPNER, A.M., Lecturer in Spanish**

**A major in Spanish** is designed to enable the student to understand, speak

<sup>1</sup> Absent on leave, 1955-56.

## BARNARD COLLEGE

and write the language with ease, have a general knowledge of the history and cultural development of Spain and the Spanish American world, with a more profound knowledge of the literature and art of Spain and of the main literary and artistic works of the Hispanic Republics. A student should concentrate at the same time either on a literary genre, whether it be poetry, the novel or the theater, or on a period, classical or modern.

A student majoring in Spanish will be required to take 13-14; 15a-16a; 19; 22; and 23-24; and either 17-18; 25-26; 27-28, or a more advanced course to be chosen in consultation with the department. Courses 1-2; 3, 4; 3a, 4a, and 9-10 do not count toward the major requirement.

Other fields: The following courses are recommended: Anthropology 9-10; Fine Arts 75, 76; Foundation of Language Learning; French 7, 8; History 87, 88; Italian 21, 22; 195, 196; Philosophy 1; 61-62.

The major examination consists of a three-hour written examination on Spanish literature; of a three hour-written examination on Hispanic civilization and Spanish American literature; and of a half-hour oral examination on literature and identification of pictures of Spanish works of architecture and painting.

### LANGUAGE COURSES

#### 1-2. Elementary Full-Year Course. 8 points. PROFESSORS DEL RÍO and DA CAL.

Grammar, reading, conversation.

May not be taken parallel to Italian 1-2. [17]

Section I M T W Th F 9. 207 Milbank.

Section II M T W Th F 2. 202 Milbank.

#### 3, 4. Intermediate Course. 6 points. PROFESSORS FLORIT and DA CAL.

A rapid review of grammar and syntax, conversation, and reading, discussion and analysis of important works in Spanish and Spanish American literatures. Monthly book reports on outside reading. [17]

Section I M W F 9. 405 Barnard.

Section II M W F 1. 4 Milbank.

#### 3a. Intermediate Course in Grammar and Composition. 3 points. \_\_\_\_\_.

The equivalent of Course 4 given for students who have had three years of high school Spanish. Emphasis on oral self-expression and written compositions on outstanding novels and poetry. Monthly book reports on outside reading. M W F 11. [17] 335 Milbank.

#### 4a. Advanced Course in Grammar and Composition. 3 points. \_\_\_\_\_.

Emphasis on original composition and translation from Spanish into English and from English into Spanish.

Prerequisite: Course 3a or 4. M W F 11. [17]

#### [5, 6. Spanish Composition. 4 points. PROFESSORS DEL RÍO and DA CAL.

Not given in 1955-56.]

Study of the style of modern authors, oral and written composition, and original writing of short stories, short plays, and essays.

Prerequisite: Course 3, 4 or 4a.

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### 5x, 6x. Spanish Composition. 4 points. PROFESSOR DA CAL and \_\_\_\_\_.

Rapid review of grammar and intensive translation from Spanish into English; sight reading and prepared translation. This course is planned for students who wish to take the foreign language test.

Prerequisite: *Course 3, 4 or 4a.* T Th 9. [0] 4 Milbank.

### 9–10. Intermediate Spanish Conversation. 2 points. Members of the department.

Open only to students taking another Spanish course, either session. [0]

Section I T 3. 209 Milbank.

Section II Th 3. 209 Milbank.

### 11–12. Advanced Spanish Conversation. 2 points. Members of the department.

Discussion and reports on Spanish subjects.

Prerequisite: *Course 9–10.* Open only to students taking another Spanish course, either session. Th 1. [0] 211 Milbank.

### 31–32. Oral Spanish, Advanced Course. 4 points. Members of the department.

Discussion based on readings of outstanding works of Spanish literature, reports on varied subjects, recitation of representative poetry.

Prerequisite: *Course 3, 4 or 3a, 4a,* or permission of instructor. Two class hours and one conference. Hours to be arranged. [0]

## LITERATURE COURSES<sup>1</sup>

Courses marked thus § will satisfy the foreign language requirement, if a minimum of 6 points is taken, and a grade of C— or higher is obtained.

### 13, 14. The Culture of the Hispanic Countries. 4 points. PROFESSOR FLORIT and \_\_\_\_\_.

*Winter Session:* The history and culture of Spain. \_\_\_\_\_.

*Spring Session:* The development of Spanish American culture. PROFESSOR FLORIT.

Prerequisite: *Course 3, 4 or 5, 6.* T Th 10. [7] 321 Milbank.

### §15–§16. Introduction to Spanish Literature. 6 points. PROFESSOR DA CAL and \_\_\_\_\_.

Lectures on the history of Spanish literature, reading, reports, and discussion of the outstanding works and authors up to the twentieth century. Not open to majors.

Prerequisite: *Course 3, 4 or 3a, 4a, or 5, 6.* [17 ]

Section I M W F 10. 211 Milbank.

Section II M W F 11. 211 Milbank.

### §15a–§16a. Spanish Literature. 6 points. PROFESSOR DEL RÍO.

Spanish literature from its origins to the end of the seventeenth century, with emphasis on Cervantes. Monthly reports on novels or dramas.

Intended for students majoring in Spanish and Spanish-speaking students. Open also to qualified students on written permission of the instructor. Not open to those who have taken *Course 15–16.*

Prerequisite: *Course 3, 4 or 3a, 4a, or 5, 6.* M W F 10. [2] 39 Milbank.

<sup>1</sup> All courses are conducted entirely in Spanish.

## BARNARD COLLEGE

**17–18. The Spanish Drama of the Golden Age.** 6 points. PROFESSOR DEL RÍO.

*Winter Session:* Reading and discussion of the medieval antecedents and the sixteenth century theater, including Lope de Vega. *Spring Session:* The theater after Lope de Vega with emphasis on Calderón. Monthly book reports.

Prerequisite: *Course 15–16, 15a–16a* or the written permission of the department. M W F 11. [3] 209 Milbank.

**19. Nineteenth Century Novel.** 3 points. PROFESSOR DA CAL.

Prerequisite: *Course 13, 14, 15–16, 15a–16a*, or the written permission of the department. T Th 2. [9] 211 Milbank.

**§22. Contemporary Spanish Literature.** 3 points. PROFESSOR DEL RÍO.

A study of outstanding authors from 1898 to 1936. Three book reports on the main novelists.

Prerequisite. *Course 13, 14, 15–16, 15a–16a*, or the written permission of the department. T Th 2. [9] 211 Milbank.

**§23. Spanish American Literature.** 4 points. PROFESSOR FLORIT.

Lectures, reading, and reports on the history of Spanish American literature up to the present time.

Prerequisite. *Course 13, 14, 15–16, 15a–16a*, or the written permission of the department. T Th 11. [8] 209 Milbank.

**[25–26. Cervantes.]** 6 points. PROFESSOR DEL RÍO.

*Not given in 1955–56.]*

Lectures, reading, and discussion of Cervantes' novels and theater.

Prerequisite. *Course 15–16 or 15a–16a.*

**[§27–§28. Spanish Poetry.]** 6 points. PROFESSOR FLORIT.

*Not given in 1955–56.]*

A study of the development of the poetry of Spain from its origin to the present time.

Prerequisite. *Course 15–16 or 15a–16a.*

**29, 30. Special Reading.** 4 points. Members of the department.

Discussion on assigned reading to co-ordinate and supplement the work done in other courses; review of tendencies and literary movements and development of main literary genres.

Open only to seniors. Hours to be arranged. [0]

## ZOOLOGY

INGRITH J. DEYRUP, Ph.D., Associate Professor of Zoology  
*Executive Officer*

JOHN A. MOORE, Ph.D., Professor of Zoology

<sup>1</sup>AUBREY GORBMAN, Ph.D., Professor of Zoology

EDWARD S. HODGSON, Ph.D., Assistant Professor of Zoology

PAMELA ALEXANDER, A.B., Assistant in Zoology

NANCY WEBER, A.B., Assistant in Zoology

The major program is designed to serve a variety of needs. Some students

<sup>1</sup> Absent on leave Spring Session.

## ZOOLOGY

major in zoology who, though interested in general education, desire specific knowledge of living organisms. Other students specialize in zoology in anticipation of graduate work in this field, or in preparation for medical or dental school. Still others plan a career in government, educational or private research organizations, or wish to teach at the elementary or intermediate school level.

The sequence of courses to be followed will depend in part on the ultimate aims of the student, but some general advice can be offered. The most important thing to keep in mind is that careful planning of the entire course sequence in zoology and related fields is necessary. This is important in order to provide a balanced program and to assure that any prerequisites for advanced courses are completed in proper time.

All students majoring in zoology should take 1-2 during the first year if possible. Beyond this, there are no specific course requirements, but the following has been found to be a satisfactory sequence for most majors: second year: 3 and 14; third year: 13 and 8; fourth year: 15 and 72.

*Chemistry* 1-2 and 41 fulfill the minimum requirements in chemistry for graduate work in zoology and for entrance into medical school, and this amount is generally regarded as the minimum for zoology majors as well. A year of general physics (3-4) should be taken by majors who plan on graduate work or a career in medicine. This may be taken during the senior year. Graduate work in zoology requires a knowledge of German and French.

Students are encouraged to do summer work in zoological laboratories, such as the Marine Biological Laboratory at Woods Hole, Mass. Assistance toward such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund.

The major examination, which is closely correlated with the senior seminar (72), represents an attempt to correlate and analyze the basic concepts of zoology. It is in the form of a three-hour written examination. Further information about it may be obtained from members of the department.

### **1-2. General Zoology. 10 points. PROFESSOR MOORE and assistants.**

This course is designed to give the student an appreciation of the data, methods and philosophy of modern zoology. The topics chosen for detailed analysis in lecture are the development of genetic concepts, the problems of embryology, evolution and physiology. The laboratory work consists largely of a study of important invertebrates and vertebrates, together with some exercises on cell structure, genetics, embryology and physiology. Lec. M W F 9. Labs. (4 hours) M 1-5; W 1-5; Th 1-5; F 1-5. [1] 335 Milbank.

### **1a-2a. General Zoology. 6 points. PROFESSOR MOORE.**

Lectures identical with those of 1-2. No laboratory work. To follow or parallel a laboratory science. M W F 9. [1] 335 Milbank.

### **3. A Study of Biological Concepts. 4 points. PROFESSOR HODGSON.**

An historical survey will be made of discoveries in a specific field of biology, and these will be analyzed as examples of the manner in which scientific knowledge is accumulated.

Prerequisite: Course 1-2 or special permission. Lec. T Th 9. Lab. F 1-5. [6] 315 Milbank.

### **8. Biology of Vertebrates. 4 points. PROFESSOR HODGSON.**

An intermediate course integrating morphological and physiological phenomena in vertebrates.

Prerequisite: Course 1-2. Lec. T Th 10. Lab. F 1-5. [7] 233 Milbank.

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## [13. Histology and Histological Methods. 5 points. PROFESSOR GORBMAN.

*Not given in 1955–56.]*

The microscopic anatomy of vertebrates studied in its descriptive, developmental, comparative and functional aspects. A portion of the laboratory work is devoted to preparation of tissues for microscopic study.

Prerequisite: *Course 1–2.*

## 14. Embryology. 4 points. ——————

An introductory study of the development of the vertebrate animal, with a consideration of some of the factors which influence development.

Prerequisite: *Course 1–2.* May be taken parallel to *Course 2* with permission of the instructor. Lec. T Th 11. Lab. (4 hours) W 1–5 or Th 1–5. [8] 233 Milbank.

## 15. General Physiology. 6 points. PROFESSOR DEYRUP.

A study of the physical characteristics, chemical composition and properties of protoplasm and of cell components. Energy transformations and characteristic activities of various types of cells (muscle contraction, nerve conduction, secretion, etc.) will be discussed in detail.

Prerequisite: *Course 1–2; Chemistry 41* preceding or parallel is recommended. Lec. M W F 10. Lab. M W 2–5 or T Th 2–5. [2] 212 Milbank.

## 25. The Origin and Evolution of Life. 3 points. PROFESSOR MOORE.

A consideration of the theories and data relevant to the origin and evolution of living forms, with emphasis on animals. (A term paper is required.)

Prerequisite: *Course 1–2 passed with a grade of B or better.* } T Th 9–10:20. [6] 233 Milbank.

## [27. Genetics. 4 points. PROFESSOR MOORE.

*Not given in 1955–56.]*

A discussion of the inheritance, structural basis, and mode of action of genetic material.

Prerequisite: *Courses 1–2; 13.*

*Courses 25 and 27 are given in alternate years.*

## 61, 62. Problems in Zoology. PROFESSORS DEYRUP, GORBMAN, HODGSON and MOORE.

Work will be planned to suit the needs of the student after consultation with the instructors. Hours and credit by arrangement. [0]

## 72. Senior Seminar. 2 points. PROFESSOR DEYRUP.

Reading of literature and discussion of fundamental problems of zoology.

Conference period: T 2. [0] 13 Milbank.

## 101. Invertebrate Zoology. 6 points. PROFESSOR HODGSON.

A study of morphological and physiological phenomena in the invertebrates, with special emphasis on the fundamental problems which are best studied in these forms.

Prerequisites: *Course 1–2 or the equivalent and permission of the instructor.* Some knowledge of organic chemistry will be useful. Lecture-conferences: M W F 9. Lab. M W 10–1. [1] 209 Milbank.

## 122. Ecology and Animal Behavior. 2 points. PROFESSOR MOORE.

Topics from the recent literature in the fields of ecology and animal behavior.

## ZOOLOGY

Prerequisite: *Course 101* or the equivalent. Admission only with the permission of the instructor. T Th 9. [6] 233 Milbank.

[**129. Comparative Endocrinology.** 3 points. PROFESSOR GORBMAN.  
*Not given in 1955–56.]*

Comparative physiology, morphology and development of the endocrine systems. The relation of endocrine secretions to environmental adaptations, behavior and reproduction of animals.

Prerequisite: *Courses 1–2 and 13.* Organic chemistry is recommended.

[**130. Experimental Procedures in Endocrinology.** 3 points. PROFESSOR GORBMAN.

*Not given in 1955–56.]*

The basic laboratory procedures used in the study of endocrine phenomena, including familiarization with biochemical preparations, bioassay, surgery, and radioisotopic tracers.

Prerequisite: *Course 129* and written permission of the instructor.

**152. Vertebrate Physiology.** 6 points. PROFESSOR DEYRUP.

A study of the functions and interrelationships of the organs and organ systems of vertebrates, including consideration of circulation, respiration, gastro-intestinal function, excretion, additional mechanisms concerned with the regulation of the internal environment, and the integrative role of the central nervous system.

Prerequisite: *Course 1–2 or the equivalent, inorganic chemistry and physics.* Admission only with written permission of the instructor.

Lec. M W F 11. Lab. (6 hours) M W 2–5. [3] 37 Milbank.

**152a. Vertebrate Physiology.** 3 points. PROFESSOR DEYRUP.

Lectures identical with those of 152. No laboratory work. M W F 11.  
[3] 37 Milbank.

## VI. Professional Schools

The requirements for admission to the professional schools of Columbia University vary: in some instances a Bachelor's degree is essential; in others a student is eligible after one year or two years or three years of college study. Since only a limited number of students can be accommodated, the Office of University Admissions selects the most promising applicants. Barnard College keeps in close touch with these schools and the Class Advisers give pertinent advice concerning them. Full information in regard to each may be obtained from the Secretary of Columbia University.

### THE PROFESSIONAL OPTION

Under the plan of "professional option" an exceptionally good student may receive the Bachelor of Arts degree from Barnard College after the completion of three years of undergraduate work and the first year in professional school. To be eligible for this privilege, before entering the professional school, the student must have completed at Barnard 90 points of academic work which includes all specific requirements, a major of 28 points, and the major examination or major thesis.

Students transferring to Barnard from other institutions may be granted "professional option" only if they have a superior academic record. In no case will this permission be given until the student has done a minimum of a full year's work at Barnard.

Application for admission to this plan must be made to the Committee on Instruction in March of the preceding year.

### ARCHITECTURE

The School of Architecture offers a course of study leading to the degree of Bachelor of Architecture. Under normal conditions, the professional degree may be obtained in four years.

The work at Barnard should include, among other courses, a full year each of English, a foreign language (preferably French or German), mathematics, and either economics, history, government, or sociology. For students not candidates for the Barnard degree, at least one year (30 points) of college work, but preferably more, is required for admission to the School of Architecture.

### BUSINESS

The Graduate School of Business offers a one-year course of study leading to the degree of Master of Science for college graduates who have majored in business, a two-year course of study leading to the degree of Master of Business Administration for college graduates without

## **PROFESSIONAL SCHOOLS**

previous preparation in business, and advanced studies leading to the degree of Doctor of Philosophy.

Well-qualified men and women who are precluded by economic circumstances from registering for a full program are admitted for part-time study under appropriate supervision and control.

### **DENTAL HYGIENE**

A two-year course for Dental Hygienists is offered at the School of Dental and Oral Surgery, leading to the Bachelor of Science degree in Dental Hygiene. The minimum requirement for admission is two years (60 points) of college work. The preparatory work at Barnard should include the satisfactory completion of the following requirements: English, 6 points; biological science or chemistry, 3 points; sociology or psychology, 3 points. Applicants who lack not more than 8 of the 60 credits required for admission will be considered for matriculation on condition that the 8 credits be earned during the summer session between the junior and senior years.

This profession is limited to women and is controlled by state law and licensing examination.

Two scholarships of \$300 each are offered each year, provided by the Dental Hygienists Alumnae Association of Columbia University.

### **DENTAL AND ORAL SURGERY**

The School of Dental and Oral Surgery offers a four-year course of study leading to the degree of Doctor of Dental Surgery. The preparatory work at Barnard should comprise a minimum of 6 points each in English composition and literature, physics, zoology, inorganic chemistry and organic chemistry. The Admissions Committee of the School of Dental and Oral Surgery will consider carefully the entire predental record and select the most promising candidates. The minimum requirement for admission is three years (90 points) of college work.

### **DRAMATIC ARTS**

The School of Dramatic Arts offers to graduates with a Bachelor's degree from Columbia University or from another institution of acceptable standing, a course of study in a minimum of one year, leading to the degree of Master of Fine Arts (in Dramatic Arts).

### **ENGINEERING**

The School of Engineering offers undergraduate programs in chemical, civil, electrical, industrial, mechanical, mining, metallurgical, and mineral engineering. Each of these programs is a blend of four groups of studies: first, those designed to broaden the student's general cultural education; second, those intended to give her competence in mathematics and the natural sciences; third, the basic engineering sciences

## BARNARD COLLEGE

such as mechanics of materials; and fourth, those by which she will become thoroughly grounded in the application of fundamental principles to her specific field of engineering.

Because of the scope of these programs the first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a minimum of courses are taken in the engineering school. After successful completion of the first three years' work, the student applies for admission to the School of Engineering, and the remaining two years of more specialized engineering study are taken under the School of Engineering. This program is known as the "professional option" program.

Although the above plan is educationally desirable, it is possible in some cases for the exceptional student to complete the prescribed subjects with two years in Barnard College and two years in the School of Engineering. This program leads to the degree of Bachelor of Science only.

Students who are interested in engineering should offer at entrance to Barnard additional credits in mathematics (through trigonometry), one in chemistry, and if possible, one in physics. For details the student should consult the Dean of the School of Engineering.

Further information about the engineering program and the advanced degrees may be obtained from the Announcement of the School of Engineering.

### INTERNATIONAL AFFAIRS

The purpose of the School of International Affairs is to provide a course of instruction which will equip a limited number of students for staff and administrative posts in international fields. The emphasis during the first year is upon the development of an adequate knowledge and understanding of the field generally and of a specialized knowledge of one world area; emphasis in the second year is upon the development of one of the following functional specialties: business affairs, economic affairs, government affairs, international administration, and legal affairs. The degree of Master of International Affairs will be awarded upon the satisfactory completion of the course.

The basic requirements for admission are: (a) a Bachelor's degree from an approved institution, and (b) a superior undergraduate record. In addition to these basic requirements, the student must satisfy special requirements of the functional field in which she plans to specialize. Further information may be obtained from the Office of University Admissions.

### JOURNALISM

The Graduate School of Journalism offers a one-year course leading to the degree of Master of Science. A Bachelor's degree is required for

## PROFESSIONAL SCHOOLS

admission to this school. Undergraduate work should, wherever possible, include courses in English composition, government of the United States, history since 1914, economics and sociology. The applicant must have completed courses totaling 96 points in liberal arts and sciences.

### LAW

The School of Law offers a three-year course of study leading to the degree of Bachelor of Laws. The preparatory work at Barnard must be of good grade. Although there is no required pre-law curriculum, students would be well advised to take courses in English, government, economics, and United States and English history. The minimum requirement for admission is three years (90 points) of college work, but the complete college course of four years is considered advisable. Admission is on a competitive basis. All applicants for admission to the Law School are required to take an aptitude test. This test will be given in many locations throughout the United States several times during the academic year, the first date being November 12, 1955. For further information write to the Educational Testing Service, 20 Nassau Street, Princeton, New Jersey.

### LIBRARY SERVICE

The School of Library Service offers a one-year course of study leading to the degree of Master of Science. A Bachelor's degree in liberal arts, acceptable scores in the Graduate Record Examination, and evidence of fitness for library work are required for admission. Undergraduate courses should include two years' study of a modern foreign language.

### MEDICINE

The College of Physicians and Surgeons offers a four-year course of study leading to the degree of Doctor of Medicine. The preparatory work at Barnard must be of good grade and must include the requirements prescribed by the New York Board of Regents as follows: approved courses in English, physics, and biology, covering at least one academic year each, and approved courses in chemistry, covering at least one and one-half academic years, including an approved course in organic chemistry.

Before admission to the medical school, the entire premedical record of each applicant is carefully examined in order that those who are adjudged the most promising candidates for the profession may be selected. While the minimum requirement for admission is three full academic years of college work, the complete college course of four years is considered the most desirable preparation.

## BARNARD COLLEGE

### NURSING

Columbia University offers a three-year course at the College of Physicians and Surgeons and the Presbyterian Hospital leading to the degree of Bachelor of Science and a diploma in nursing. The preparatory work at Barnard should comprise work in chemistry or biology, psychology, and sociology. The acceptance of a candidate is based on grounds of character and health as well as on the fulfillment of the academic requirements. The minimum requirement for admission is two years (60 points) of college work, but students who hold the Bachelor's degree may obtain permission to complete the course in two years and four months.

### OCCUPATIONAL THERAPY

The Faculty of Medicine offers a program of professional study in Occupational Therapy leading to a Bachelor of Science degree. The candidate for admission must offer two years (60 semester hours) of acceptable college work, including a minimum of 6 semester hours in biology (including zoology), chemistry or physics and 3 semester hours each in psychology and sociology. The course of study is of twenty-five months' duration, including two academic years and nine months of clinical experience.

A graduate program of seventeen months is offered for students already possessing a Bachelor of Arts or Science degree. The applicant must meet specific prerequisites of 6 semester hours in biology (including zoology), chemistry or physics, 6 semester hours in psychology and 3 semester hours in sociology. On satisfactory completion of the program of one academic year and nine months of clinical experience, the Faculty of Medicine awards a Certificate.

Acceptance of a student for admission to either program is based on evidence of personal capabilities, a good record of physical health and emotional stability.

Additional information may be obtained from the Office of Occupational and Physical Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y.

### PHYSICAL THERAPY

The Faculty of Medicine offers a program of training in Physical Therapy which leads to the Bachelor of Science degree. The candidate for admission must offer two years (60 points) of acceptable college work, including 6 points in biological science, 4 points in physics and/or chemistry, and 6 points in psychology.

The course of professional study covers 21 calendar months, including two academic years of didactic instruction and clinical practice, and a two month clerkship following the junior year of study.

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A graduate program of one calendar year is offered for students already possessing a Bachelor of Arts or Bachelor of Science degree. The Faculty of Medicine awards a Certificate upon satisfactory completion of this course.

Acceptance of a student for admission to either program is based on evidence of personal capability, and on health and character as well as on the fulfillment of academic requirements.

Information regarding courses may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y.

### PUBLIC HEALTH AND ADMINISTRATIVE MEDICINE

The Faculty of Medicine offers a program of professional study at the School of Public Health and Administrative Medicine leading to the Master of Science degree in Hospital Administration, Administrative Medicine, Biostatistics, and Parasitology. A Bachelor's degree from an approved college and evidence of satisfactory scientific training are necessary for admission. All candidates must spend at least one academic year at the school. An administrative residency of one calendar year's duration is required of all hospital administration students.

### THE RUSSIAN INSTITUTE

The Russian Institute of Columbia University was established in 1946 with the assistance of the Rockefeller Foundation. The two-year graduate program leading to a Certificate is designed for students who wish to prepare themselves for scholarly or professional careers in the Russian field with special emphasis on some one discipline.

Within the Institute, the candidate will be expected to follow a broad program of survey courses on Russia, and to give major emphasis to one of five Russian fields: history, economy, government and law, international relations, or the social and ideological aspects of literature. Outside the Institute, she will work simultaneously for an advanced degree in the graduate department or school that is most closely allied with the specialty she elects within the Institute.

It is not necessary for a candidate for admission to the Institute to have a knowledge of Russian, as a reading knowledge of the language can be acquired during the first year of the two-year program.

### SOCIAL WORK

The New York School of Social Work of Columbia University offers a two-year course of study leading to the degree of Master of Science. The School is an accredited member of the Council on Social Work Education. The curriculum includes a sequence of courses, supervised

## BARNARD COLLEGE

field work in social work agencies, and research to prepare students for professional practice in social work.

A Bachelor's degree is required for admission. The undergraduate program of study must include a minimum of 60 points in strictly liberal arts studies and not less than 20 points in the social and biological sciences, with the emphasis in the direction of the social sciences.

The School has a limited enrollment and admission is on a selective basis. The General Announcement, giving information about the curriculum and dates for filing application, may be obtained upon request.

## TEACHERS COLLEGE

Teachers College, Columbia University, provides for college graduates a one-year course of study leading to the Master's degree and to teacher certification in any one of these teaching fields: nursery education, kindergarten, elementary education, biology, business subjects, chemistry, English, fine arts, foreign languages, health education, history, mathematics, music, physical education, physics, recreation, science, social studies, speech, and special programs of education for work with the blind, hard of hearing, deaf, mentally retarded and physically handicapped.

A combined five-year program can be planned: the regular four-year undergraduate program of liberal arts studies can be combined with the fifth professional year of graduate work at Teachers College. The one-year course of study at Teachers College provides for practical experience and classroom instruction. The program is planned in terms of the individual's background and teaching interests. For guidance on planning programs for teacher preparation—see Dean Bailey, 117 Milbank Hall, and Mr. Lange, 311 Dodge Hall, Teachers College.

## UNION THEOLOGICAL SEMINARY

Union Theological Seminary offers courses of study leading to the degrees of Bachelor of Divinity, Master of Religious Education, Master of Arts in the fields of Christian Education, Biblical Literature, and Comparative Religions, and Master of Sacred Music.

Since accommodations at the Seminary are limited, it is necessary to select from the total number of applicants for admission those who seem best qualified, and who in the light of their expressed purpose, personality, and record of scholarship give especial promise of usefulness in some form of Christian ministry. The requirement for admission is a Bachelor's degree, including special work as indicated below for each degree:

a. *Bachelor of Divinity.* The preparatory work for this three-year course should include the study of philosophy, especially the history of philosophy, and courses in history, literature, economics, psychology,

## PROFESSIONAL SCHOOLS

and at least one modern language, either French or German. A knowledge of Greek is desirable.

b. *Master of Arts* in the fields of Christian Education, Biblical Literature, and Comparative Religions. Preparatory work for these courses should include: (1) in Christian Education, some knowledge of the Bible, of the philosophy and ethics of the Christian religion, and of either the psychology of personality or the principles of education; (2) in Biblical Literature, a working knowledge of Hebrew and Greek sufficient to proceed at once to exegesis based on the original languages of the Bible; (3) in Comparative Religions, a general knowledge of the history of religions and a working knowledge of such language as may be necessary for study in the candidate's field of special interest. Students with satisfactory preparation in these subjects may complete the work for the Master of Arts degree in one year.

c. *Master of Religious Education*. Preparatory work for this course should be the same as that for the Master of Arts in Christian Education as indicated under b. above.

d. *Master of Sacred Music*. Candidates for this degree must give evidence of the completion of an amount of work in music sufficient to enable them to enter with profit upon the courses in sacred music.

The Seminary also participates in joint programs leading to the degrees of Master of Arts and Doctor of Philosophy in the field of religion at Columbia University, and to the degrees of Master of Arts, Doctor of Education, and Doctor of Philosophy in religious education through Teachers College, Columbia University.

## VII. Fees

Barnard College cannot charge its students the full cost of their education if it is to make intellectual ability, and not merely ability to pay, the deciding factor in admissions. Tuition and other student fees make up only about two-thirds of the cost of educating a student at Barnard, and the balance must be provided by income from endowment and by annual gifts from alumnae and other friends of the College. Every effort is made to keep fees at a minimum by economies of operation which do not affect the quality of education, and by efforts to increase both endowment and annual giving.

### SUMMARY OF FEES

I.	Full-time non-resident students	Each Session	Academic Year
A.	Registration .....	\$ 10.00	\$ 20.00
	Tuition .....	390.00	780.00
	Student Activity Fee.....	6.50	13.00
	Medical Fee .....	5.00	10.00
		\$411.50	\$ 823.00
B.	Optional additional Medical Fee to participate in Colum- bia University Student Med- ical Plan* .....	5.00	10.00
		\$416.50	\$ 833.00
II.	Full-time resident students		
	Registration .....	\$ 10.00	\$ 20.00
	Tuition .....	390.00	780.00
	Room Rental .....	185.00	370.00
	Board .....	200.00	400.00
	Laundry and Linen Fee.....	6.50	13.00
	Student Activity Fee.....	6.50	13.00
	Medical Fee .....	10.00	20.00
		\$808.00	\$1,616.00
III.	Other students		

Matriculated students taking less than a full schedule (nine points or less) and all non-matriculated students are required to

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\* This additional fee is required for all non-resident students not living with parents or relatives.

## F E E S

pay the registration and medical fees each session, as well as \$36 per point for all academic work and \$5 for physical education, if this is required.

All matriculated students are also required to pay the student activity fee.

### IV. Deposits

All students: In order to obtain a place on the college roll for the ensuing winter or spring session, students who are currently enrolled must pay a deposit of \$50 on or before May 15 and December 1 respectively. Applicants for admission or readmission must make this advance payment at the time they signify their acceptance of admission or readmission to the College. The deposit of \$50 will be applied to the tuition bill of the winter or spring session, as the case may be. The entire deposit is forfeited in case of a student's failure to enter, or of her withdrawal.

Resident students: A room deposit of \$50 is payable by May 15 to secure the assignment of a room. One half of this deposit, (\$25) will be applied to the rent bill of the winter session and the remainder to the rent bill of the spring session. *The entire deposit is forfeited in case of withdrawal.*

Deposits for the use of apparatus and material required in:

Chemistry 23 .....	\$10
Chemistry 24, 26, 41, 42, 63, 64, 107, 108, 137, 138, each course .....	\$15

### V. Payment of Fees

*All fees are payable semiannually in advance, and no reduction is made for late registration. Registration is not complete until all fees are paid, including residence hall fees. Failure to register or pay fees on time imposes automatically the statutory charge of \$15 for late registration.*

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

Checks or money orders in payment of all fees, including those for charges in the residence halls, should be in U. S. currency and should be made payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due. No check which is made out for more than the correct amount will be accepted.

Every financial obligation to the College must be met by January 1 of the winter session or by May 1 of the spring session, if the student is to be permitted to take her examinations and receive credit for the session's work.

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The privileges of the College are not available to any student who is delinquent in the payment of her fees.

(The application fee of \$10, payable when application for admission is filed, is not credited on the bill and is never refunded. It should not be confused with the registration fee, payable each session.)

### VI. Deferred Payment

In special cases, upon payment of a nominal fee, permission may be obtained from the Bursar to defer the payment of approximately one-half of the total bill for the session until November 15 or March 15, provided that such permission is granted before August 15 or December 15 (for the spring session). Any application for the privilege of deferred payment made after August 15 or December 15 will be considered late payment and as such will be subject to a late payment fee of \$5. Where the privilege of deferred payment has been granted, each payment must be made on the due date or an additional fee of \$5 for late payment will be incurred. In case of withdrawal the entire bill for tuition and residence will become due immediately.

### VII. Refunds

As contracts with instructors and provisions for education and residence are made by the College in advance for the entire year, no refunds of registration, tuition or rent can be made after these fees become due, except in cases of extreme hardship, of which the College shall be the sole judge. Refunds for board may be made at the discretion of the College and will be computed on a pro rata basis from the date of withdrawal to the end of the session. Application for the refund must be made in writing at the time of withdrawal to the Director of the Residence Halls. No refunds will be made for special diets but the Director of Food Services will make every effort to cater to the needs of individual students.

### VIII. Additional Charges

Tuition for courses in applied music: See departmental announcement of courses for special fees.

Tuition for technical courses in fine arts: See announcement of the School of General Studies for special fees.

Tuition for General Studies courses: See announcement of the School of General Studies for special fees.

Late registration for academic work (see page 149) ... \$15.00

Late registration for Physical Education ..... 5.00

Late filing of program ..... 10.00

## F E E S

For students in college who fail to file their programs for the coming session within the period announced for that purpose. In the spring term students who defer filing programs until after Commencement are fined \$20.

Late change of program.....	5.00
Any change in program initiated by any student and made after the period announced for that purpose.	
Deficiency and special examinations, payable in each case before the examination is held:	
For each deficiency examination.....	\$ 5.00
For each special examination.....	10.00
(A special or deficiency examination is one taken at any time other than at the conclusion of a course actually attended.)	
For late application for any such examination or for the foreign language test.....	5.00
For the degree.....	20.00
This fee is never refunded. It must be paid on or before April 15 by candidates for the degree in June or October and by January 1 by candidates for the degree in February.	

### IX. Hospital Insurance

Membership in the Associated Hospital-United Medical Service, beginning October 1, costs \$29.76 for twelve consecutive months. Consult the Bursar for complete information.

### X. Other Expenses

There are other miscellaneous expenses not payable to the College for which the student should plan. These include a gymnasium costume, approximately \$15, Student Government dues of \$2.00 for resident students, and a minimum of \$40 per year for textbooks. Non-resident students should estimate a minimum \$100 (\$3.00 weekly) for lunches if they plan to buy them in the cafeteria or snack bar. Individual estimates of expense should also include transportation, clothes, supplies, and amusements.

New York State Scholars at the time of registration must file with the Bursar notice of their official award, received from Albany. On the basis of this notice the student is entitled to a credit of \$175 a session. A State Scholarship Certificate is then sent from Albany to the Bursar, who records all necessary information before forwarding it to the owner. This certificate need not be presented again to the Bursar.

## VIII. Financial Aid

The College desires that no qualified student be excluded from Barnard because her family has only moderate means.

In effect, every student at Barnard receives some financial aid from past donors, because the College fees do not cover the entire cost of educating the student today, and the balance is made up by endowment income and gifts. In addition, scholarships, grants-in-aid, loan funds and provisions for self-help (see Placement Office, page 16) are provided in order to open Barnard's doors to girls of superior talent from all sections of the country, without regard to their ability to pay, but only for their promise.

Scholarship funds are, however, never sufficient to meet all the demands. For this reason it is hoped that those who benefit from this assistance may take a special interest in adding to the scholarship funds of the College after they have been graduated.

### SCHOLARSHIP FUNDS

Barnard scholarships are awarded annually by the Scholarship Committee to full-time students of high scholarly ability, excellent character, and promise of future usefulness, who are in need of financial aid. For resident students, scholarships generally range from \$150 to \$950 on a total annual bill of \$1,616; for students who do not live at the College, scholarships range in value from \$75 to \$400 on a total bill of \$823.

**FOR ENTERING STUDENTS:** All awards are granted on the basis of school records, general merit, need, and the results of the Scholastic Aptitude and Achievement Tests, taken in the senior year in high school. Entering scholarships are for one year only, but if the student makes a good record at Barnard, she is eligible to apply for further assistance in subsequent years. Since funds are limited, each candidate is asked to apply for the minimum scholarship needed.

Scholarship applications from entering students should be in the hands of the Director of Admissions on or before February 15. Blanks for this purpose may be obtained from the Office of Admissions and must be filed with the application for admission. It is not necessary to apply for a specific scholarship as listed in the following pages.

All scholarship applicants must also file a financial statement with the College Scholarship Service, Box 176, Princeton, New Jersey, or Box 27986, Los Angeles 27, California, not later than February 15 of the senior year in high school. Forms will be sent by the College

## FINANCIAL AID

Scholarship Service on request. The Service acts as a central filing and distributing agent. Photographic copies of the completed statement will be sent to the colleges named by the applicant.

Each applicant must complete and file both forms as instructed above in order to be considered for a scholarship.

The colleges in the Seven College Conference (including Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley) have agreed to cooperate in an effort to award scholarships on a non-competitive basis. Candidates who qualify for scholarships from more than one of the colleges will be offered, whenever possible, awards which are equivalent and vary only in the amount of the difference in the fees of the colleges.

Applicants are notified of awards at the time they receive their notice of admission to the college.

**STUDENTS IN COLLEGE:** Students in college must file applications for financial aid (scholarships, grants-in-aid, as well as loans) on special blanks obtainable in the Office of the General Secretary. Applications must be filed on or before March 1.

Applicants for scholarships will be notified as soon as awards are made. Recipients are requested to inform the General Secretary immediately, in writing, if because of change of plans, they do not intend to use the funds awarded.

### SCHOLARSHIP FUNDS – UNRESTRICTED

**ALUMNAE SCHOLARSHIP FUND.** A fund of approximately \$14,700. Established by the Class of 1912 at its tenth reunion, it was subsequently increased by a legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. The income is to be used to help needy and deserving students.

**ANNA E. BARNARD SCHOLARSHIP.** The income of a fund of \$3,000. Founded in 1899 by the late Miss Emily H. Bourne in honor of Mrs. John G. Barnard.

**RUTH MARSHALL BILLIKOPF SCHOLARSHIP.** The income of a fund of \$5,000. Founded in 1950, in honor of Ruth Marshall Billikopf, Class of 1919. The income will be awarded to needy and deserving students, with emphasis on character as well as academic success.

**VARIAN WHITE BLUMBERG SCHOLARSHIP.** The income of a legacy of \$5,000 from the estate of Varian White Blumberg, Class of 1913. Established in 1952. The income will be awarded to some worthy girl.

**CHARLES E. BOGERT MEMORIAL SCHOLARSHIP AND ANNA SHIPPEN YOUNG BOGERT MEMORIAL SCHOLARSHIP.** The income of a fund of \$10,000. Founded in 1913 with a bequest from the late Annie P. Burgess.

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They are awarded to worthy and deserving students of good Christian character who are unable to pay their own expenses.

**EVA-LENA MILLER BOOTH SCHOLARSHIP.** A fund of \$1,000, given in 1932 by the New York City Chapter of the Daughters of the American Revolution as a memorial to the late Mrs. Eva-Lena Miller Booth. The income is to be used to help needy and deserving students.

**BREARLEY SCHOOL SCHOLARSHIP.** The income of a fund of \$3,000. Founded in 1899 by pupils and former pupils of the Brearley School.

**MARTHA ORNSTEIN BRENNER SCHOLARSHIP.** The income of a fund of \$4,000. Founded in 1915 by her friends in memory of Martha Ornstein Brenner, Class of 1899.

**JENNIE B. CLARKSON SCHOLARSHIP.** The income of a fund of \$3,000. Founded in 1898 by the late Mrs. W. R. Clarkson.

**CLASS OF 1921 SCHOLARSHIP.** A fund of \$2,500, established in 1931, as a tenth reunion gift by the Class of 1921. The income is to be used to help needy and deserving students.

**IRMA ALEXANDER GOLDFRANK FUND.** A fund of \$2,105, established in 1919 by the friends of the late Irma Alexander Goldfrank, Class of 1908. The income is placed at the disposal of the President of the College to be used to aid needy and deserving students.

**ADA M. DONELLE SCHOLARSHIP FUND.** The income of a fund of \$121,751. Founded in 1948 with a bequest from the late Mrs. Ada M. Donelle. The income is to be used for scholarships for the support and education of students who would otherwise be financially unable to continue their education at the College.

**FISKE SCHOLARSHIP FUND.** A fund of \$5,000, given by the late Mrs. Martha T. Fiske-Collord, the income of which is placed at the disposal of the President of the College.

**GRAHAM SCHOOL SCHOLARSHIP.** The income of a fund of \$6,100. Founded in 1907 by the Graham Alumnae Association.

**LOUISE H. GREGORY SCHOLARSHIP FUND.** Established in 1955 from gifts made to the College in memory of Louise H. Gregory. The income is to be used to provide scholarship aid for outstanding Barnard students without regard to their major department.

**HARKNESS SCHOLARSHIPS.** Established in 1939 by a gift of \$100,000 from the late Edward S. Harkness. Awarded to able and needy students.

**CHARLES EVANS HUGHES SCHOLARSHIP.** The income of a fund of \$14,300. Founded in 1952 on the basis of a bequest from the late Charles Evans Hughes in 1949.

**LILY MURRAY JONES SCHOLARSHIP.** The income of a fund of \$25,100 founded in 1950 by Murray, Alfred and Wallace Jones in memory of

## **FINANCIAL AIDS**

Lily Murray Jones, Class of 1905, Alumnae Trustee from 1939 to 1943. The income will be awarded annually to an able and deserving student.

**AUGUSTA LARNED SCHOLARSHIP.** The income of a fund of \$10,000. Founded in 1924 with a bequest from the late Augusta Larned.

**LOUISE GRACE LUBY AND JAMES LUBY SCHOLARSHIP FUND.** A fund of \$5,000, established in 1947 by the estate of the late Grace Farrant Luby, Class of 1893. The income of the fund is to be used for scholarships, preferably for students in need of financial assistance.

**MEMORIAL SCHOLARSHIP FUND.** The income of a fund of \$2,050, established in 1954 with contributions given in memory of deceased alumnae and friends. The income is to be used to aid needy and deserving students.

**WILLIAM MOIR SCHOLARSHIPS.** The income of a fund of \$10,000. Founded in 1912 by the late Mrs. William Moir, in memory of her husband.

**CAROLINE CHURCH MURRAY FUND.** A fund of \$5,000, established in 1918 by Mr. George Welwood Murray in memory of his wife, Caroline Church Murray. The income is placed at the disposal of the President of the College to be used to aid needy and deserving students.

**ANNETTE FLORANCE NATHAN SCHOLARSHIP FUND.** A fund of \$3,000, established in 1947 by the estate of the late Frederick Nathan. The income is placed at the disposal of the President of the College.

**LUCRETIA PERRY OSBORN SCHOLARSHIP FUND.** A fund of \$5,000, established in 1940 with gifts from her family and friends, in memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930. The income is to be used to aid one or more needy and deserving students.

**PETER C. RITCHIE, JR., SCHOLARSHIP.** The income of a fund of \$4,400. Founded in 1937 with a bequest from the late Virginia J. Ritchie. It is awarded to a needy student.

**EDITH LOWENSTEIN ROSSBACH MEMORIAL SCHOLARSHIP FUND.** A fund of \$17,805, established in 1950 by the family, friends, and classmates of the late Edith Lowenstein Rossbach, Class of 1919. The income is placed at the disposal of the President of the College to be used to aid needy and deserving students.

**ELEANOR BUTLER SANDERS SCHOLARSHIP.** The income of a fund of \$10,000. Founded in 1922 with a bequest from the late Henry M. Sanders.

**ANNA M. SANDHAM SCHOLARSHIP.** The income of a fund of \$10,000. Founded in 1922 with a bequest to Columbia University from the late Anna M. Sandham.

**SCHMITT-KANEFENT SCHOLARSHIP.** The income of a fund of \$7,000. Founded in 1931 with a bequest from the late Catherine Schmitt.

## BARNARD COLLEGE

SCHOLARSHIP FUND. A fund of approximately \$12,000, established by general subscription through the Scholarship Committee of the Board of Trustees.

EMILY JAMES SMITH SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1899 by the late Miss Emily H. Bourne in honor of Miss Smith, Dean of Barnard College from 1894 to 1900.

GEORGE W. SMITH SCHOLARSHIP FUND. A fund of \$5,000, given in 1906 by the late Mrs. Martha T. Fiske-Collord as a memorial to Mr. George W. Smith, who was a Trustee of Barnard College. The income of the fund is placed at the disposal of the President of the College.

EDNA PHILLIPS STERN SCHOLARSHIP. The income of a fund of \$13,800. Founded in 1952 by the family and friends of the late Edna Phillips Stern, Class of 1909.

VELTIN SCHOOL SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1905 by the alumnae of Mlle. Veltin's School.

ALMA F. WALLACH SCHOLARSHIP FUND. A fund of \$1,000, established in 1951 by the estate of the late Richard L. Leo in memory of Alma F. Wallach. The income of the fund is to be used for scholarships.

ELLA WEED SCHOLARSHIP. The income of a fund of approximately \$3,600. Originally established in 1895 by the pupils and alumnae of Miss Anne Brown's School in memory of Miss Ella Weed, who was chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence.

HYMAN WERNER SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1953 with a gift from Helen Frankfield Werner, Class of 1906, in memory of her husband, Hymen Werner. It is awarded annually to an able and deserving student.

## SCHOLARSHIP FUNDS—RESTRICTED

MARY GERTRUDE EDSON ALDRICH SCHOLARSHIP FUND. A fund of \$1,000 given by Mrs. James Herman Aldrich. The income is used to assist in her senior year a student who has shown in her college life the moral qualities which go to the making of fine womanhood.

BARNARD COLLEGE CLUB OF NEW YORK SCHOLARSHIP. The income of a fund of approximately \$21,861, founded in 1952. The income is to be awarded to a deserving Barnard student whose home is outside the area of the City of New York.

BARNARD SCHOOL ALUMNAE SCHOLARSHIP. The income of a fund of \$4,000. Founded in 1916 by the alumnae of the Barnard School for Girls. It may be awarded to a student in any class, preference being given to nominees of the school.

## FINANCIAL AID

WILLINA BARRICK MEMORIAL SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1936 by the College Club of Jersey City as a memorial to Willina Barrick, Class of 1900. It is awarded on the nomination of the Club to a graduate of a Jersey City secondary school.

IRVING BERLIN SCHOLARSHIP. The income of a fund of \$18,500. Founded in 1950 by Irving Berlin. It is awarded annually to one or more girls of foreign-born parentage.

ALICE MARIE-LOUISE BRETT SCHOLARSHIP. The income of a fund of \$10,000. Founded in 1930 with a bequest from the late Philip E. Brett in memory of his daughter, Alice Marie-Louise Brett, Class of 1915. It is awarded during her senior year to an able and deserving student specializing in French.

BROOKLYN SCHOLARSHIPS. (Twelve at \$150 each). Founded in 1895 by the Trustees of Columbia University in recognition of the gift to Columbia University by President Seth Low of a memorial building for the University Library. Open to students residing in Brooklyn and prepared in a Brooklyn school.

ANNE BROWN ENDOWMENT SCHOLARSHIP FUND. A fund of approximately \$26,339, given in 1939 by the Anne Brown Alumnae Association and dedicated to the late Anne Brown. The income is used for scholarships for young women of the City of New York who would otherwise be financially unable to attend Barnard.

CARPENTIER RESIDENCE SCHOLARSHIPS (\$400 to \$900 each). A fund of \$200,000, founded in 1919 with a bequest from the late Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity.

ELIZA TAYLOR CHISHOLM MEMORIAL SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1901 by the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend.

MRS. HENRY CLARKE COE SCHOLARSHIP. The income of a fund of \$3,600. Founded in 1910 by the National Society of New England Women, now the New York City Colony of the National Society. It is awarded, on the nomination of the chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is once made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman.

CLASS OF 1919 DECENTRIAL FUND. A fund of \$5,000, established in 1929 as a tenth reunion gift by the Class of 1919, to endow a room in Hewitt Hall for the use of a deserving and needy student.

## BARNARD COLLEGE

SCHOLARSHIP IN ENGLISH. The income of a fund of \$5,000. Founded in 1920 by an anonymous donor. It is awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that if in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used, at the discretion of the Faculty Committee on Scholarships, to assist a student majoring in some other subject.

MARTHA T. FISKE SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1911 by Miss Anna E. Smith, in memory of her sister, Mrs. Martha T. Fiske-Collord. It is awarded, on the basis of scholarly ability and general character, to some deserving candidate not a resident of New York City or its suburbs.

FOOD FAIR SCHOLARSHIPS. Established in 1954 by the Food Fair Stores Foundation for employees and sons and daughters of employees of Food Fair Stores.

HELEN JENKINS GEER SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1940 by Helen Hartley Geer, Class of 1940, in memory of her mother, Helen Jenkins Geer, Class of 1915. It is awarded annually, after conference with the donor.

VIRGINIA GILDERSLEEVE INTERNATIONAL SCHOLARSHIP. The income of a fund of \$15,100. Founded in 1937 by Mr. Charles R. Crane in honor of the international work of Dean Emeritus Gildersleeve. It is awarded annually to a foreign student coming to Barnard to study.

EMMA HERTZOG SCHOLARSHIP. The income of a fund of \$3,000. Founded in 1904 by gifts from residents of Yonkers, N. Y. It is awarded, in conference with the faculty of the Yonkers High School, to a graduate of that school.

MARION ALICE HOEY FUND. A fund of \$2,000, given in 1944 by Miss Nelie Poorman in memory of a graduate of Barnard College in the Class of 1914. The income is placed at the disposal of the President of the College to be used for the aid of needy and deserving students, preference being given to those studying Greek and Latin.

LILLIA BABBITT HYDE SCHOLARSHIP. The income of a fund of \$25,000. Founded in 1953 by the Lillia Babbitt Hyde Foundation. It is awarded to pre-medical students.

CHARLOTTE LOUISE JACKSON SCHOLARSHIP. The income of a fund of \$5,000. Founded in 1928 with a bequest from the late Fannie A. Jackson, in memory of her sister. It is awarded to a graduate of a Yonkers high school selected by or under the direction of the Board of Education of Yonkers.

JOINT INDUSTRY BOARD OF THE ELECTRICAL INDUSTRY SCHOLARSHIPS. Established in 1951 (varying in number) and provided each year by the

## FINANCIAL AID

major electrical contracting firms of New York City for sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers.

**MARY E. LARKIN JOLINE SCHOLARSHIP.** The income of a fund of \$10,000. Founded in 1927 with a bequest from the late Mary E. Larkin Joline. It is awarded to a student who is specializing in music.

**WERNER JOSTEN SCHOLARSHIP.** The income of a fund of \$10,518. Established in 1955 with a gift from Mrs. Werner Josten. The income is to be awarded annually to one or more able and deserving students. Preference is to be given to a student majoring in music, but if in any year no such student is eligible the scholarship may be awarded to a student majoring in some other field.

**JESSIE KAUFMANN SCHOLARSHIP.** The income of a fund of \$4,000. Founded in 1902 by Mr. Julius Kaufmann in memory of his daughter, Jessie Kaufmann. Awarded on the merits of the entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course.

**ELEANOR KINNICUTT SCHOLARSHIP.** The income of a fund of \$5,000. Founded in 1911 in memory of Mrs. Francis P. Kinnicutt, who was a Trustee of Barnard College. It is awarded at the end of the freshman year to a student of exceptionally high standing, and may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1957 and 1960.

**CAROLINA MARCIAL-DORADO SCHOLARSHIP.** The income of a fund of \$5,900. Founded in 1953 in memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. It is awarded to a deserving student from Spain. If at any time there is no applicant from Spain eligible for the grant, it may at the discretion of the Department of Spanish be awarded to a deserving student who is majoring in Spanish.

**EUGENE F. AND MINNIE GOUGER MCGOWAN SCHOLARSHIP.** The income of a fund of \$6,666. Established in 1955 with gifts from an anonymous donor. The income is to be awarded annually to one or more able and deserving students, with preference being given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas.

**MRS. DONALD MCLEAN SCHOLARSHIP.** The income of a fund of \$3,000. Founded in 1906 by the New York City Chapter of the Daughters of the American Revolution. It is awarded, in conference with a representative of the Chapter, to a deserving student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course.

## BARNARD COLLEGE

**MARY BARSTOW POPE SCHOLARSHIP.** The income of a fund of \$4,000. Founded in 1913 in memory of Mary Barstow Pope, sometime teacher in Miss Chapin's school, by her friends, her fellow-teachers, and her pupils. It is open to any undergraduate for the whole or any part of her course, and is awarded on the nomination of a self-perpetuating committee representing the founders.

**PROCTER AND GAMBLE SCHOLARSHIP.** A four year scholarship awarded each year to an incoming freshman. It consists of full tuition, plus an allowance for books of \$50, and an accompanying grant to the institution.

**PUBLIC SERVICE SCHOLARSHIP.** The income of a fund of \$30,000 from the Women's Organization for National Prohibition Reform, to be awarded to young women of exceptional ability, who are interested in following a career of public service in the field of political science, and who show special promise of future usefulness in the public service. The award is to be paid annually at the discretion of the Faculty of Barnard College to either one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one or two or three additional years of graduate study at any approved college or university in order to encourage young women of exceptional ability to complete a long course of study which will fit them for service in public life.

**LUCILLE PULITZER SCHOLARSHIPS (\$300 to \$900 each).** Founded by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. Three are restricted to students from the City of New York; eight are for resident students.

**LUCILLE PULITZER SUPPLEMENTARY SCHOLARSHIPS (\$50 EACH).** Founded by the late Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. They are awarded to worthy and needy students, and may be used to supplement larger scholarships or themselves combined into scholarships of \$100 or more. The money is applicable to tuition fees, residence fees, or in special cases, general outside expenses.

**AMELIA AGOSTINI DE DEL RÍO SCHOLARSHIP.** The income of a fund of \$2,799. Founded in 1955 by gifts for this purpose in honor of Mrs. de del Río, the present head of the Barnard College Department of Spanish. The income from this fund is to be awarded to a student from Mrs. de del Río's native island of Puerto Rico who meets the academic requirements of the College and is in need of scholarship assistance. If at any time there is no applicant from Puerto Rico eligible for the grant, it may, at the discretion of the Department of Spanish, be awarded to a deserving student who is majoring in Spanish.

**FRED CURTIS SMITH MEMORIAL SCHOLARSHIP.** The income of a fund of \$41,500. Founded in 1955 in memory of Fred Curtis Smith, who was

## **FINANCIAL AID**

at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank. The income will be awarded annually to one or more deserving students who are in need of financial assistance.

**EMMA A. TILLOTSON SCHOLARSHIP.** The income of a fund of \$5,000. Founded in 1910 by the late Mrs. Luther G. Tillotson. It is awarded at the end of the freshman year to a student of exceptionally high standing, and may be held for three years, provided the recipient continues to maintain a high rank. It will be awarded in 1957 and 1960.

**CLARA BUTTENWIESER UNGER MEMORIAL FUND.** A fund of \$2,500, established in 1938 by the late Joseph L. Buttenwieser, in memory of his daughter, Clara Buttenwieser Unger, Class of 1913. The income of the fund is to be awarded annually to assist through her senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution.

**HELEN ELIZABETH VOSBURGH SCHOLARSHIP.** The income of a fund of \$5,000. Founded in 1934 with a bequest from the late Katherine G. Lippke in memory of Helen Elizabeth Vosburgh, Class of 1925. In awarding this scholarship, preference is given to a self-supporting student.

**GERTIE EMILY GORMAN WEBB SCHOLARSHIP.** The income of a fund of \$5,000. Founded in 1953 by the late Charles Webb. It is awarded to a student nominated by the Department of History.

**ALMA GLUCK ZIMBALIST SCHOLARSHIP.** The income of a fund of \$10,000. Founded in 1940 with a bequest from the late Alma Gluck Zimbalist. It is awarded annually to a student who wishes to major in political science.

### **SCHOLARSHIPS—ESTABLISHED ON A TEMPORARY BASIS**

**ASSOCIATE ALUMNAE LOAN FUND SCHOLARSHIP.** A fund of approximately \$27,000. Established by the Associate Alumnae of Barnard College in 1955. The income is to be used for scholarship awards to one or more seniors of good academic standing and character.

**BARNARD-IN-BERGEN CLUB SCHOLARSHIP.** A tuition scholarship, with stipend varying. Awarded to an entering freshman from Bergen County, New Jersey, for one year only.

**BARNARD-IN-BROOKLYN CLUB SCHOLARSHIP.** A tuition scholarship, with stipend varying, established in 1944. It is awarded annually to a student from Brooklyn.

**HOLLAND DAMES SCHOLARSHIP.** Established by the Daughters of Hol-

## BARNARD COLLEGE

land Dames in honor of Fanny I. Helmuth. It is awarded in conference with a representative of the society to a student descended from the early Dutch settlers, who is in need of aid.

THRIFT SHOP SCHOLARSHIPS. Awarded annually to able and deserving students from the proceeds of the Barnard College Alumnae Thrift Shop, 922 Third Avenue, New York 22, New York.

WESTCHESTER SCHOLARSHIP. Established by the Barnard College Club of Westchester in 1937, in memory of Edna Chapin Close, Class of 1902. Value \$400. Awarded to entering freshmen from Westchester County for one year only.

## SEVEN COLLEGE SCHOLARSHIPS

The Seven College Conference, made up of Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley, annually offers twenty-one Seven College Scholarships for incoming freshmen. Each college offers a scholarship in each of the three following districts: Middle West: Kansas, Missouri, Nebraska; South: Louisiana, New Mexico, Oklahoma, Texas; and West: Arizona, California, Oregon, Washington.

The amount of the scholarship will be determined by the college making the award from financial information furnished by the applicant. Honorary scholarships carry no stipend; other awards range up to the full amount for tuition, room and board.

Information and application blanks may be obtained from the Director of Admissions of Barnard College.

## GRANTS-IN-AID

IDA BLAIR MEMORIAL FUND. A fund of \$700, established in 1937 by the Women's Democratic Union, in memory of Ida Blair. The income of the fund is to be used each year for the purchase of books for a student (preferably one studying political science) who shall be designated as deserving by the President of the College.

ARTHUR BROOKS FUND. A fund of \$5,000, given in 1897 by Miss Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence.

THOMAS F. CLARK STUDENTS' LOAN FUND. A fund of \$100,000, the bequest of the late Mrs. Fanny Foster Clark. The income is to be used to aid needy and deserving students.

GALWAY FUND. The income of a fund of \$2,400. Established in 1912 by an anonymous donor. It is awarded annually.



GEER MEMORIAL GATE, ENTRANCE TO BARNARD



LOOKING NORTH FROM BARNARD HALL, WITH RIVERSIDE CHURCH, MILBANK HALL  
AND UNION THEOLOGICAL SEMINARY IN BACKGROUND

THE FRONT ENTRANCE TO MILBANK HALL





BOTANY STUDENT CONDUCTS RESEARCH PROJECT IN THE GREENHOUSE



A BARNARD UNDERGRADUATE FROM DELHI, INDIA



PRESIDENT MC INTOSH WITH STUDENTS FROM FRANCE, TIBET AND TURKEY

A MEETING OF THE UNDERGRADUATE REPRESENTATIVE ASSEMBLY





THE ARDEN COURTS, SEEN FROM MILBANK HALL

A SCENE FROM GREEK GAMES, ANNUAL FRESHMAN-SOPHOMORE COMPETITION





HEWITT HALL, ONE OF THE RESIDENCE HALLS

BROOKS HALL LIVING ROOM





NEAR THE SUNDIAL ON THE BARNARD CAMPUS

## **FINANCIAL AID**

### **LOAN FUNDS**

The Associate Alumnae of Barnard College maintain a Student Loan Fund from which sophomores, juniors and seniors may borrow. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerard Swope and Miss Henrietta Swope, an additional fund known as the Swope Loan Fund was established. These two funds are now administered by the Faculty-Alumnae Scholarship and Loan Committee. In making application for financial aid, a student specifies the amount of money needed to supplement family funds. This may be granted by the Committee partially as an award (scholarship, grant-in-aid) with the remainder being made available as a loan from the above mentioned funds. Any students except freshmen may apply for a loan. A maximum of \$500 may be borrowed over the entire college period. No interest is charged while the student is in college. Payments on principal may be made at any time while the student is an undergraduate. Repayments and interest at the rate of 1% per year are required to start six months after graduation. Loans of more than \$200 are scheduled to be repaid over a period of five years and loans of \$200 and less over a three-year period.

Awards are made on the basis of integrity, good standing in the community, academic merit, a sense of responsibility, and financial need.

## IX. Honors

While all scholarships are awarded to those who have financial need and have proved their academic ability, the following funds were established to honor those who have exhibited the most promise of distinction in their chosen line of work.

### GRADUATE FELLOWSHIPS

**KIMBALL FELLOWSHIP.** The income of a fund of \$32,800. Founded in 1938 with a bequest of the late Lillian Emma Kimball. This fellowship is to be awarded to a woman from Spain or one of the Spanish-American countries who shall pursue a year of graduate work at Columbia or elsewhere, under the direction of a special committee of women members of the Faculty.

**GEORGE WELWOOD MURRAY GRADUATE FELLOWSHIP.** The income of a fund of \$20,000. Established by Mr. George Welwood Murray in 1930. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. This fellowship is to be awarded each year as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students may not apply for this fellowship; it is an honorary award. Students who have graduated in February are eligible, as well as those who are to graduate in June.

**GRACE POTTER RICE FELLOWSHIP.** The income of a fund of \$24,000. Established in 1935 by Mr. Winthrop Merton Rice in memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934. The holder is to pursue a year of graduate study in natural sciences or mathematics at Columbia or any other university or college of approved standing. This fellowship is awarded each year as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students may not apply for this fellowship; it is an honorary award. Students who have graduated in February are eligible, as well as those who are to graduate in June.

**THE HERBERT MAULE RICHARDS FUND.** A gift of \$5,000. Established by

## HONORS

the Barnard Botanical Club, former students, and friends, in memory of Professor Richards, a member of the Department of Botany from 1896 to 1928, and Chairman from 1897 to 1928. The income from this fund will be granted from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College.

### GRADUATE SCHOLARSHIPS

**ALPHA ZETA CLUB GRADUATE SCHOLARSHIP.** The income of a fund of \$6,800, established in 1936 by the Alpha Zeta Club, Inc. This scholarship is to be awarded at the discretion of the faculty as an academic honor to a member of the graduating class of Barnard College, who, in the opinion of the Faculty, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree.

**WILLIAM MASON SCHOLARSHIP.** The William Mason Scholarship in music is awarded periodically upon the recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music. The value of the scholarship may not exceed the income of the fund.

**MARGARET MEYER GRADUATE SCHOLARSHIP.** The income of a fund of \$3,000. Founded in 1952 with a bequest from the late Annie Nathan Meyer in memory of Margaret Meyer Cohen, Class of 1915. This was originally established in 1923 as an annual gift. The income is to be awarded to a student in the graduating class for instruction in secretarial work.

### GRADUATE PRIZES

**1956 ALLEN PRIZE IN MATHEMATICS.** A prize of \$600 will be awarded in February or June of 1956, on the recommendation of the Department of Mathematics, to a qualified senior whose major field is mathematics or physics. The recipient will be selected on the basis of scholarship and character. Indications of a promising career, and the student's plans for her future, will be among the factors given consideration by the committee in making the selection. A needy student shall receive the entire sum toward tuition and other expenses of graduate work in mathematics or physics at an institution selected by the student. A student not in need shall receive \$100. In case no candidate is considered sufficiently well qualified, the award will be deferred until the following year.

**FRANK GILBERT BRYSON PRIZE.** A prize consisting of the income of a fund of \$3,000, founded in 1931 with a bequest from the late Ella Fitzgerald Bryson, Class of 1894, in memory of Frank Gilbert Bryson. It is awarded annually to a senior who has given conspicuous evidence of unselfish-

## BARNARD COLLEGE

ness. Awarded by vote of her class to the student who in their opinion has made the greatest contribution to Barnard during her college career.

**DEAN PRIZE IN GERMAN.** A prize consisting of the income of \$1,000, one-fifth of a fund of \$5,000, established in 1925 by Mr. Edward D. Adams for the promotion of the study of German language and literature in Barnard College, is awarded annually to that member of the senior class who has throughout her course done the best work in German language and literature.

**KOHN MATHEMATICAL PRIZE.** A prize consisting of the income of a fund of \$1,000, founded by Mrs. S. H. Kohn, is awarded annually to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

### UNDERGRADUATE PRIZES

**ESTELLE M. ALLISON PRIZE.** A prize consisting of the income of a fund of \$1,000, founded in 1937 with a bequest from the late Estelle M. Allison, is awarded annually to a student for excellence in literature.

**MARY E. ALLISON PRIZE.** A prize consisting of the income of a fund of \$1,000, founded in 1937 with a bequest from the late Estelle M. Allison, in memory of her mother, Mary E. Allison, is awarded annually to a student for general excellence in scholarship.

**EDNA HENRY BENNETT MEMORIAL SCHOLARSHIP FUND.** A fund of \$1,640, established in 1927 by friends of the late Edna Bennett, Class of 1915, Lecturer in Zoology. The income is to be awarded by the Department of Zoology for work at a biological laboratory offering summer courses.

**THE COLUMBIA UNIVERSITY PRESS PRIZE.** A prize offered annually by the Columbia University Press to the member of the Sophomore Class who has done the best writing for Barnard Bulletin. The prize is a copy of the Columbia Encyclopedia.

**FRESHMAN ENGLISH PRIZE.** An annual prize to that freshman who, in the opinion of the Freshman English Committee, does the best piece of writing in connection with the work of the course. Annual prize of \$35.

**THE JENNY A. GERARD MEDAL.** The Jenny A. Gerard Gold Medal, given in 1908, by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the undergraduate student of American birth writing the best essay on American history.

**GERMAN PRIZE.** The income of a fund of \$6,000. Founded in 1950. It is awarded annually at the end of her junior year to an outstanding student majoring in German. In case the winner does not need scholarship

## HONORS

help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date.

**HERRMAN BOTANICAL PRIZE.** A prize consisting of the income of a fund of \$1,000, founded by the late Mrs. Esther Herrman, is awarded annually to the most proficient undergraduate student in botany.

**THE ELIZABETH JANEWAY PRIZE FOR PROSE WRITING.** An annual prize of \$500 open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. All undergraduates who intend to enter the prize competition must notify the chairman of the English Department of their intention to do so by the first of November each year, at which time they will receive detailed instructions as to the requirements. The final manuscripts must be submitted to the chairman by March 15th. The prize will be given at the discretion of a board of three judges chosen by the College and the donor.

**THE ROSAMOND E. LAFFERTY PRIZE IN ORAL FRENCH.** A prize of \$50 awarded annually to a junior for excellence in oral French. The prize is offered to encourage proficiency among students who are not themselves of French background. The winner will be chosen on the basis of a ten minute disquisition to be judged by a committee including French-speaking faculty members outside the French Department. Candidates must have pursued French courses continuously during their college course.

**THE WILLIAM PEPPERELL MONTAGUE PRIZE.** A prize consisting of the income of a fund of \$3,000, established in 1949 by Dr. William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. The prize will be awarded biennially, on the recommendation of the Department of Philosophy, for the best essay on the significance of what Albert Schweitzer calls "reverence for life" in its bearing upon the neglected ethical problem of the nature and extent of man's duty to animals.

**THE HELEN PRINCE MEMORIAL PRIZE.** A prize consisting of the income of \$1,200, founded in 1921 by Mr. Julius Prince in memory of his daughter, Helen C. Prince, Class of 1922, is awarded annually to an undergraduate student for excellence in dramatic composition.

**KATHARINE E. PROVOST MEMORIAL PRIZE.** A prize consisting of the income of a fund of \$1,000, established in 1949 in memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Comptroller of Barnard College and, at the time of her sudden death, Superintendent of Buildings and Grounds. This prize is

## BARNARD COLLEGE

awarded annually for superior work by an undergraduate major in economics.

**CAROLINE GALLUP REED PRIZE.** A prize consisting of the income of a fund of \$1,000, founded in 1916 by Mrs. William Barclay Parsons in memory of her mother, Mrs. Sylvanus Reed, for the recognition of special study in the subject of the origin of Christianity and early church history, is awarded annually to the student who shows the highest excellence in this field of work. The award is made partly on the basis of an examination and partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion.

**MARIE REIMER SCHOLARSHIP.** The income of a fund of approximately \$4,035. Founded in 1953 by former students and friends of Professor Emeritus Marie Reimer, for many years head of the Barnard College Department of Chemistry. To be awarded annually at the end of her junior year to an outstanding student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in chemistry. If in any year, no student qualifies for the award, it may be deferred until the following year.

**SPERANZA PRIZE IN ITALIAN.** A prize consisting of the income of a fund of \$1,000, founded by a former student in memory of the late Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911, is awarded annually to a student for excellence in Italian.

**JEAN WILLARD TATLOCK MEMORIAL PRIZE.** A prize consisting of the income of a fund of \$1,250, founded in 1917 by her friends in memory of Jean Willard Tatlock, Class of 1895, is awarded annually to the undergraduate student most proficient in Latin.

**VON WAHL PRIZE.** A prize consisting of the income of a fund of \$1,300, founded in 1915 in memory of Constance von Wahl, Class of 1912, President of the Undergraduate Association, is awarded annually to a student for excellence in zoology, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded.

The following prizes of Columbia University are by their terms open to students of Barnard College:

**BENNETT PRIZE.** A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfac-

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tory courses in Political Science. The subjects for 1955-56 are: "The Place of Regional Agreements in United States Policy Toward the U.N."; "Proposed Reforms in the Electoral College"; "Congressional Regulation of Investigating Committee Procedure." For additional information consult Professor Truman.

**THE BUNNER MEDAL.** The H. C. Bunner Gold Medal, established by the friends of the late Henry Cuyler Bunner, is awarded annually at Commencement to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. The award will be made by a committee to be appointed by the President. The subject for 1955-56 is: "Whitman as seen by his critics, 1855-1955." For additional information consult Professor Everett.

**EARLE PRIZE IN CLASSICS.** A prize of \$50, established in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900, and Professor of Classical Philology from 1900 to 1905, is awarded annually to a candidate for the degree of Bachelor of Arts, partly on the basis of a special examination, partly on the basis of consistently good work in Greek and Latin courses. Students are urged to do much of their work for the examination during the preceding summer vacation. For further information consult Professor Benedict.

**THE CAROLINE PHELPS STOKES PRIZE.** The Caroline Phelps Stokes Prize of \$40 is awarded annually at Commencement to that student who, having been regularly enrolled in Columbia College, Barnard College or Teachers College as a candidate for an academic degree, for not less than two sessions, winter or spring, shall be deemed to have written the best essay upon an assigned topic bearing upon the rights of man. Topics for 1955-56 are as follows: "Academic freedom and its value to contemporary American society"; "The impact of the Second World War on the rights of man in the United States." For additional information consult Professor Stern.

**VAN RENSSALAER PRIZE.** To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details, consult Professor Van Doren.

**WOODBERRY PRIZE.** To be awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages, unless a single poem is submitted in excess of that amount. Established by the Woodberry Society as a memorial to the late George

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Edward Woodberry. If in the opinion of the committee of judges, no poem submitted in any prize year is worthy of this award, the prize will not be given. Open for competition in 1955-1956. Value of prize about \$100. For additional details, consult Professor Campbell.

The following prize is also open to Barnard students:

SUSAN HUNTINGTON VERNON PRIZE. This prize is awarded annually, on recommendation of the Executive Officer of the Department of Spanish, for the best original essay written in Spanish by a senior whose native language is not Spanish, but who is taking language courses at Barnard, Mount Holyoke, Radcliffe, Smith, Vassar or Wellesley. The value of the prize is about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943.

## X. General Regulations

### REGISTRATION

Prior to registration every incoming student discusses her program with the Class Adviser. For freshmen individual appointments are made throughout September, and for transfer students they are planned for the three days preceding the opening of college. Class advisers are appointed from the teaching staff and are prepared to give information and advice on all matters pertaining to the curriculum. For the year 1955-56 the Class Advisers are:

PROFESSOR CLARA ELIOT	Adviser to the Class of 1959
DR. LUCILLE H. ALTSCHUL	Adviser to the Class of 1958
MISS HELEN M. CARLSON	Adviser to the Class of 1957
DEAN HELEN P. BAILEY	Adviser to the Class of 1956

Friday and Saturday before registration are set aside for freshman orientation, when the class meets together for the first time. The University campus is explored and the varied activities of college life are introduced by upperclassmen and officers of the undergraduate groups. In 1955 registration for all students takes place in the gymnasium of Barnard Hall, as follows:

Monday, September 26	A - L (day students only)
Tuesday, September 27	M - Z (day students only)
Wednesday, September 28	All resident students

Registration is not complete and classes cannot be attended until all fees, including those for residence, are paid. A fine of \$15 is charged for failure to register on the dates which are indicated above.

A Bursar's receipt, required for identification on campus, will be issued to each student in the gymnasium during the September registration period, and in the Bursar's office during the period from January 18-27, 1956.

### FILING OF PROGRAMS

After the opening of college a few days' leeway is allowed for program-revision. Freshman and sophomore programs must be approved by the Class Adviser; those of juniors and seniors by the Major Adviser. In 1955-56 final programs are due on the following days:

#### Winter Session, 1955-56

Wednesday, October 5	A - L (old students)
Thursday, October 6	M - Z (old students)
Friday, October 7	Transfers and former students
Monday, October 10	All freshmen

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### Spring Session, 1955-56

Wednesday, February 15	Transfers and former students
Thursday, February 16	M - Z (old students)
Friday, February 17	A - L (old students)
Monday, February 20	All freshmen

### CHANGE OF PROGRAM

After the final program is filed no change of any kind is permitted without the written consent of the Class and the Major Advisers. Notice of all changes must be filed by the student herself in the Registrar's office. A fee of \$5 is charged for each change which is initiated by the student.

### ELECTION OF COURSES

Certain restrictions apply to all programs and any variation must have the approval of the Committee on Programs and Standing. The minimum number of points that may be elected each semester is 12 and the maximum 16; the maximum number of courses is five. On any one day no more than four hours of class work may be taken, or its equivalent in laboratory work, that is, seven hours of class and laboratory work combined. All courses must be elected for the credit value announced. No credit is allowed for a one-hour course unless taken in conjunction with the course which it supplements. No credit is allowed for any course elected on an optional or audit basis, even though all work is completed, unless the student changes her registration to a credit basis in the Registrar's office within three weeks of the beginning of the term.

### COLUMBIA UNIVERSITY COURSES

Courses in the Faculties of Political Science, Philosophy and Pure Science are open to qualified seniors who obtain the approval of their Major Adviser and the executive officer of the corresponding Barnard department. Seniors with high academic standing may apply for permission to count two graduate courses in their major field toward the Bachelor's degree. Those who wish to register for graduate courses to count toward a higher degree must comply with the following conditions:

1. The approval of the executive officer of the Barnard department must be obtained.
2. The student must be in the last term of her senior year.
3. She must be within 12 points of the Bachelor's degree.
4. The points for graduate credit must be in addition to those required for the undergraduate degree.

## GENERAL REGULATIONS

Columbia College courses not listed in the current announcement may be elected, if in addition to the required departmental approval, the approval of Dean McKnight of Columbia University is procured through the office of the Barnard Registrar.

Courses in the School of General Studies may be credited toward the degree with the approval of the Committee on Programs and Standing, if passed with a grade not lower than C. A course taken in General Studies must be paid for by the student herself, over and above her Barnard tuition, unless a written statement is obtained from the Major Adviser indicating that the course is an integral part of her major and that no equivalent course is given by the department. (See Fees, page 128.)

Teachers College courses may be taken for credit by qualified seniors with the consent of the Dean of Studies and the Registrar of Teachers College. Fees for these courses are not included in the regular tuition, but are added to the Barnard bill.

### SUMMER STUDY

Credit is given for summer session courses taken at accredited institutions, if they are approved in advance, and if a minimum grade of C is obtained in each course. Courses of less than six weeks' duration are credited only in exceptional cases. Students whose average standing in the preceding year fell below 2.50 are restricted to six points of work in a six-weeks session and a proportionate number for a longer session. No student with an average less than 2.00 will be authorized to attend summer classes. Additional credit for high standing (See page 152) is not given for summer work.

Applications for summer study should be filed in the Registrar's office on the specified date. Students are asked to have official transcripts of their summer work sent to the Registrar by November 1.

### GRADING SYSTEM

Academic standing and eligibility for graduation are determined by the quantity and quality of the student's work. The quantity is estimated by the amount of work, or the number of points completed. The credit value in points is contained in each course description, one point as a rule meaning fifty minutes of class work per week and approximately two hours of preparation. (Laboratory courses, studio work, etc., are an exception.) Quality of work is gauged numerically by a system of credit ratio, which is the ratio of the number of credits received to the number of points elected. A to A— indicates excellent work; B+, B, B—, good; C+, C, C—, fair; D, poor; F, failure; and P, passed without a specific grade.

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A course is marked Incomplete (Inc) if the instructor has given the student permission in advance to postpone the submission of required work. The grade for this work automatically becomes F, if such work is not completed within three weeks after the end of the semester. Absent (Abs) means absent from the final examination, and Deferred (Def) means that the grade has been deferred because of illness during the examination. NC indicates that the course was taken optionally for no credit. WD signifies that the student withdrew from the course without formal notification.

Students whose work in their major field is of unusual merit are awarded the grade, Passed with Distinction.

Each point with a mark of A = 4 credits; B = 3; C = 2; D = 1, F = 0. For every plus or minus an adjustment of +0.3 or -0.3 is made. The average mark per point is the student's rating, and is computed at the end of each semester.

In any one year no more than 6 points of D work may be counted, and no more than 24 points of D in the total number of credits. Grades of D are not counted in the major field, and no credit for D work is allowed for summer session courses.

Additional credit for high standing is given under the following conditions: one point of class credit to the student whose average for the semester is 3.50 to 3.69 inclusive, and two points to the student with an average of 3.70 or over, provided that the program includes not less than 12 points, all work for the session is completed, and no grade of Absent, Incomplete or Deferred is received.

At the end of the sophomore year all records are examined. Only those students whose cumulative average is 2.00 (C) or who show promise of future development are permitted to remain in college. The continuance in college of students whose work falls below this average is determined by the Committee on the Academic Standing of Students.

## EXAMINATIONS

Examinations are scheduled at the end of each semester in January and in May. For the academic year 1955-1956 they will be held on January 23-February 2 inclusive and May 21-31 inclusive.

Deficiency examinations, given on Saturday mornings in October, are open only to those students whose term work is satisfactory and who were unavoidably absent from the regular series. They may be taken either in the autumn immediately following the prescribed period, or in the second autumn thereafter. Otherwise, credit for the course is forfeited. A fee of \$5, payable in advance, is charged for each deficiency examination.

## GENERAL REGULATIONS

Seniors who for imperative reasons have missed an examination may apply for a special examination. For each one there is a fee of \$10, payable in advance.

### CLASSIFICATION OF STUDENTS

Matriculated students are classified as follows:

- Freshmen: those who have completed less than 24 points of academic work  
Sophomores: those who have completed 24 points  
Juniors: those who have completed 54 points  
Seniors: those who have completed 86 points  
Unclassified: those who have not yet been assigned definite credit on transfer

No matriculated student may change her status to a non-matriculated basis.

### DEAN'S LIST

A Dean's List is compiled at the end of each academic year which contains the names of all those students who deserve special mention for superior scholarship. Announcement of the list is made the following October.

### PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible.

### DEGREES

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in June, October, and February.

The Faculty confers honors upon students who complete work for the degree with distinction (*cum laude*), with high distinction (*magna cum laude*) and with highest distinction (*summa cum laude*). Departmental honors are awarded to graduates who have done distinguished work in their major fields.

### ACADEMIC DISCIPLINE

The continuance of a student upon the rolls of the University, the receipt of academic credit, graduation, and the conferring of the degree

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are subject to the disciplinary powers of the University, which is free to cancel any registration if it seems advisable. The authority of the University is vested in the President of the University. With regard to Barnard students it is exercised by the President of Barnard College in all such cases as the President of the University deems proper.

### ABSENCES

All students are expected to attend classes regularly. The attendance of freshmen is under the supervision of the Dean of Studies.

All absences must be reported on forms available in the office of the College Physician. Statement of the reason for absence is optional, except in the case of illness, which must be specifically recorded. Illness is considered an excuse for excess absence only if the student's statement is filed immediately upon her return to college.

### RESIDENCE

Barnard has residence space available for only one-third of the student body, and since the aim of the overall housing policy is to have as many resident students as possible from different parts of the world, it is impossible to assign rooms to those who are able to commute, or who are carrying a program of less than ten points. Ordinarily all students not residing with their parents are required to live in Brooks, Hewitt or Johnson Halls, unless they receive special permission to live off campus. Approval of their living arrangements must be obtained from the General Secretary. Applications for permission, accompanied by letters of authorization from parents or guardians, should be made before August 15 or January 1. Any change of residence at any time during the college year must be officially approved.

Students will not be given permission to live off campus unless they meet one of the following requirements: twenty-one years of age or older at the time the application is made; living with older friends of their families or close relatives; living in supervised residences; or holding living-in-jobs.

### ASSEMBLIES

College assemblies and academic meetings at which attendance is obligatory are held on Tuesdays at 1:10 p.m. Assemblies, which are planned by a joint committee of the Faculty and the Undergraduate Association, bring distinguished speakers to the College and provide a forum for the discussion of important topics. Students are required to keep this hour free from other engagements.

Students who are prevented by conscientious scruples from com-

## **GENERAL REGULATIONS**

plying with academic requirements on days set apart by their church for religious observance should make application to their religious counselor for an equitable solution, and file this statement in writing in the Registrar's office.

### **WITHDRAWAL**

Any student in good academic standing, not subject to discipline, may withdraw from the College with an honorable discharge. Written notification of withdrawal must be sent to the office of the Registrar. Students under twenty-one years of age must furnish written assent of a parent or guardian. (See Refunds, page 128.)

## XI. Statistics

	1889 to 1890	1899 to 1900	1904 to 1905	1909 to 1910	1914 to 1915	1919 to 1920	1924 to 1925	1929 to 1930	1934 to 1935	1939 to 1940	1944 to 1945	1949 to 1950	1951 to 1952	1952 to 1953	1953 to 1954
<b>UNDERGRADUATES, REGULAR:</b>															
Seniors	40	83	62	*123	87	*126	227	*181	*164	*208	*260	213	232	*255	*238
Juniors	40	71	122	110	190	259	237	220	191	314	277	320	333	290	245
Sophomores	37	75	109	191	193	234	247	226	210	314	272	287	223	238	323
Freshmen (regular)	54	110	188	240	224	271	311	267	246	324	271	215	230	253	274
Freshmen (partly regular)	10	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...		
Unclassified students	14	171	339	481	664	694	947	1076	997	954	1216	1097	1058	1032	1049
<b>SPECIAL STUDENTS:</b>															
Matriculated	21	27	24	32	39	33	28	29	21	21	21	15	14	14	25
Nonmatriculated	22	... ... ... ... ... ...	30	32	22	22	22	22	29	21	21	21	21	21	22
Departmental (1889-1896)	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...		
Music students	(1896-1904, 1914-1915)	41	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	
<b>GRADUATE STUDENTS (1890-1900)</b>															
Total Students Primarily Registered at Barnard	315	366	535	733	755	980	1104	1026	985	1237	1112	1066	1046	1074	1154
Students from Columbia University	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...		
Students from Teachers College	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...		
Total Students from Other Parts of the University	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...		
Total Registration	36	333	505	794	869	873	1183	1400	1210	1097	1326	1210	1162	1109	1146
DEGREES CONFERRED:	A.B.	39	83	88	141	139	198	247	221	206	270	303	257	267	285
B.S. (1909-1918)	18	... ... ... ... ... ...	2	8	5	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	
A.M. (1898-1900)	1	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...		
Ph.D. (1895-1900)	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...	... ... ... ... ... ...		

\*The figures for seniors include students counting the first year in a professional school of the University in place of the fourth year at Barnard as follows:

1913-14	18	in Education	1924-25	1	in Medicine	1932-33	2	in Journalism	1938-39	1	in Architecture,	1947-48	2	in Medicine,	245
1914-15	3	in Education	1926-27	2	in Medicine	1934-35	1	in Law	1939-40	1	in Medicine	1948-49	1	in Business,	340
1916-17	1	in Journalism	1927-28	1	in Architecture	1935-36	1	in Medicine	1942-43	1	in Law	1949-50	1	in Medicine	317
1921-22	1	in Journalism	1922-23	1	in Business	1936-37	4	in Journalism	1943-44	1	in Law	1952-53	2	in Law	304
1922-23	1	in Journalism	1923-24	2	in Journalism	1937-38	3	in Journalism	1944-45	1	in Law	1953-54	1	in Law	258
1923-24	1	in Medicine	1924-25	1	in Medicine	1937-38	3	in Medicine	1945-46	1	in Medicine	1946-47	3	in Medicine	107

## XII. Examination Groupings

Courses are arranged in examination groups in order to avoid conflicts on the examination schedule. These groups are indicated by Arabic boldface numerals in brackets immediately following the class hours. Group 0 includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group (except Group 0) *without making special arrangements through the Registrar's office.*

### Group [1] M W F 9

Botany 13; 16  
Chemistry 41a, 42a (and Th 1)  
Economics 17, 18 (M W 9)  
English 47, 48 (W F 9)  
English 64; 65  
French 27, 28  
Geology 1a; 2a; R26  
Government 11, 12  
History 11–12  
Mathematics 1; R22; R31  
Religion 25, 26  
Zoology 1–2; 1a–2a; 101

Economics 15; 24  
English 61; 63; 66  
Fine Arts 78 (M W 11–12:15);  
91, (M W 11, F 3)  
French 21, 22  
Geography 3, 4  
German 7, 8  
Government 3, 4 (I)  
Greek 25; 26  
History 35, 36  
Music R31  
Philosophy 1 or R1 (II); 8  
Philosophy 43  
Physics 3–4; 3a–4a  
Psychology 9; 26  
Religion 31  
Sociology 31; 42; 132 (M W 11)  
Spanish 17–18  
Zoology 152

### Group [2] M W F 10

Chemistry 23; 24; 26  
Economics 19, 20  
English 53; 54  
English 74; 75  
Fine Arts 61  
French R5; 23; 24  
German 5, 6  
Government 5, 6  
Greek 11; 12  
Italian 29  
Mathematics R1; 6; 33; 43  
Philosophy 1 or R1 (I)  
Philosophy 61–62  
Psychology 27; 28  
Spanish 15a–16a  
Zoology 15

### Group [4] M W F 1

Botany 5, 6 (M W 1)  
Chemistry 145; 150 (M W 1, Th or F 2)  
Economics 5–6  
Fine Arts 63; R77  
Government 3, 4 (II); 18  
History 5, 6; 37, 38  
Latin 11; 12  
Mathematics R32; R33; 48  
Philosophy 4; 5; 75  
Psychology 16  
Sociology 33

### Group [3] M W F 11

Botany 11 (M 11)  
Chemistry 105, 106  
Classical Civilization 57, 58

### Group [5] M W F 2

Anthropology 9–10 (W F 2)  
English 36; 71; 84; 85

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Fine Arts 51, 52  
French 13, 14  
Geography 12; 15  
Government 15; 16  
Greek 1—2  
History 43; 58  
Italian 13, 14 (M 2—4, W 3); 17, 18  
Latin 3; 4  
Music 15; 16 (M 2, W 2—4)  
Philosophy 1 or R1 (III); 67; 84  
Physics R5  
Religion 58  
Sociology 35; 38

## Group [6] T Th 9

Botany 1—2 (T Th 9, Th 1)  
Botany 1a—2a (T Th 9, Th 1)  
Economics 3; 4  
English 42 (T Th 9)  
English 88 (T Th 9:10—10:25)  
Foundations of Language Learning  
French 11, 12; 30  
Geology 27; 28E  
Government 25, 26 (T Th 9:10—10:25)  
Italian 21, 22  
Latin 25; 26 (T Th 9:10—10:25)  
Religion 33, 34 (T Th 9:10—10:25)  
Sociology 21 (T Th 9:10—10:25)  
Zoology 3; 25; 122

## Group [7] T Th 10

Anthropology 3, 4  
Economics 9 (T Th 10:35—11:50)  
Economics 32 (T Th 10:35—11:50)  
Fine Arts 1—2  
French 9, 10 (T Th 10, W 3)  
French 31, 32 (T Th 10, F 3)  
Geography 1, 2 (T Th 10:35—11:50)  
Hygiene  
Italian 5, 6  
Mathematics 31—32 (T Th 10, W 3)  
Philosophy 1 or R1 (IV) (T Th 9:10—  
10:25)  
Philosophy 22 (T Th 10:35—11:50); 41  
Psychology 21  
Religion 4  
Spanish 13, 14  
Zoology 8

## Group [8] T Th 11

Classical Civilization 55  
English 43 or R43 (T Th 10:35—11:50)  
English 67, 68 (T Th 11, Th 1)  
Fine Arts 75, 76 (T Th 10:35—11:50)

French 15—16  
Geology 1; 2 (T Th 11, Th 1)  
German 25, 26  
Government 3, 4 (III) (T Th 10:35—  
11:50)  
History 33, 34; 35, 36  
Italian 3, 4 (T Th 11, F 2)  
Music 1—2 (T Th 11, Th 1); 8  
Psychology 24; 25 (T Th 10:35—11:50)  
Religion 9, 10  
Sociology 41  
Spanish 23  
Zoology 14

## Group [9] T Th 2:10

Anthropology 8  
Economics 27; 28 (T 2, Th 2—4)  
English 62 (Th 2:10—3:25)  
English 69, 70 (T Th 2:10—3:25)  
English 79, 80 (T Th 2:10—3:25)  
Fine Arts 65; 66  
Government 3, 4 (III)  
Government 31, 32 (T Th 2:10—3:25)  
History 25, 26  
Psychology 12 (T 2, Th 1—4)  
Sociology 43, 44 (T Th 2:10—3:25)  
Spanish 19; 22

## Group [10] M W F 3:10

Anthropology 17; 18 (M W 3)  
Drama Workshop 1, 2 (M W F 1—5)  
Education 1—2  
English 59, 60 (M 2—4)  
English 62 (W 3—5)  
English 81; 82  
French 41—42  
History 7, 8  
Italian 25, 26 (M W 3)  
Philosophy 81, 82 (M W 3 and third  
hour)  
Psychology 37  
Religion 19; 20 (M W 3 and third hour)  
Sociology R39

## Group [11]

Psychology 1 or R1 (Sections)  
Psychology 7—8 (Sections)

## Group [12]

English 37, 38 (Sections)  
Mathematics 7—8 (Sections)  
Mathematics 22 (Sections)

## EXAMINATION GROUPINGS

### **Group [13]**

Botany 152 (T Th 3-5)  
English 58 (T 3:35-5:25)  
English 87 (T Th 4)  
Fine Arts 81 (T F 3:30-5)  
Fine Arts 97-98 (Th 3-5)  
German 29 (T Th 3)  
German 52 (T Th 3)  
History 85, 86 (T Th 3)  
Religion 83, 84 (T 3-5)

### **Group [14]**

French 1-2 (Sections)  
French 3, 4 (Sections)  
French R4 (Sections)  
French 5, 6 (Sections)  
French 5x, 6x (Sections)  
French 7, 8 (Sections)  
French 125 (W 4:35-6:15)

### **Group [15]**

French 60 (W 4-6)

German 1-2 (Sections)  
German 3, 4 (Sections)  
History 60 (W 4-6)  
History 3-4 (Sections)  
History R28 (W 4-6, Th 1)

### **Group [16]**

History 1-2 (Sections)

### **Group [17]**

Italian 1-2  
Sociology 1-2 (Sections)  
Spanish 1-2 (Sections)  
Spanish 3, 4 (Sections)  
Spanish 3a; 4a  
Spanish 15-16 (Sections)

### **Group [18]**

Economics 1-2 (Sections)

### **Group [19]**

Chemistry 1-2  
Chemistry 1a-2a

## **Group [0]**

There is no restriction on courses in this group. They may be taken together or with courses in other groups, provided there is no conflict in class hours. Group [0] includes courses which ordinarily do not have set examinations.

American Civilization 1, 2; 3, 4

Botany 161, 162

Chemistry 41b, 42b; 63, 64; 99; 107; 108; 137, 138

Economics 51, 52; 61, 62; 63, 64

Education 3-4

English A1-A2

English A3, A4; D1, D2

English 1, 2; 3, 4

English 5, 6

English 11, 12

English 13, 14

English 20

English 21-22; R21

English 23

English 27, 28; 45

English 91, 92; 93, 94; 95, 96

French 37-38

French 39-40

German 01-02

German 9, 10

Government 45, 46; 61, 62

Greek 19-20; 29-30

History 45, 46; 47, 48; 49, 50; 51, 52

Italian 23, 24

Latin 19-20; 29-30

Music 39-40

Music 41-42

Philosophy 63, 64; 65-66

Psychology 47; 48; 108

Religion 35, 36; 47-48; 85, 86

Sociology 97, 98

Spanish 5x, 6x

Spanish 9-10; 11-12

Spanish 29, 30; 31-32

Zoology 61, 62; 72

Courses for which examinations may be arranged later:

Anthropology 51, 52

Botany 10; 159

Geography 30

Geology 30

Italian 7, 8

Recreational Leadership 1 or R1

Religion: Consult Registrar's bulletin board for special schedule

### XIII. Associate Alumnae of Barnard College

The Associate Alumnae of Barnard College is made up of ten thousand members living in all states of the Union as well as in sixty foreign countries. The Associate Alumnae serve the College in three important ways, by interpreting Barnard to the community, by recruiting able girls for the student body, and by aiding in the support of the College.

The Alumnae Association functions through a group of officers, directors and alumnae trustees elected by members of the Association. The central office of the Associate Alumnae is 118 Milbank Hall.

Barnard College Clubs situated in leading cities and the Alumnae Council with its nationwide membership make it possible to find spokesmen for Barnard at distances far from New York. High school students considering Barnard may find it helpful to talk personally with the Barnard representatives living nearest them. A list of these representatives as well as officers of the Associate Alumnae is given below.

#### OFFICERS OF THE ASSOCIATE ALUMNAE

MRS. FREDERICK WOODBRIDGE (Catherine Baldwin '27), President  
MRS. EDWARD PELZ (Caroline Duncombe '40), 1st Vice-President  
MRS. BERTHOLD COMEAU (Elizabeth Gaw '30), 2nd Vice-President  
MRS. ROBERTSON WARNER (Marion Mettler '25), Treasurer  
MRS. DONALD READ (Dorothy Kramm '32), Secretary  
MISS MARY A. BLISS '25, Executive Secretary

#### DIRECTORS

MRS. PHILIP ALLEN (Dorothy Dillon '50)	MRS. DANIEL LINDSAY (Mary Rodgers '22)
MRS. RAY ALLEN (Mary Kenny '14)	MRS. RANDALL P. MCINTYRE (Helen J. Pond '48)
MRS. HERBERT ANDERSON (Alice Newman '22)	MRS. ROBERT MOORE (Regina Reilly '47)
MRS. F. BASIL COLEMAN (Marguerite McCloskey '28)	MISS ROSE PATTON '29
MRS. JOHN HAVERSTICK (Iola Stetson '46)	MRS. JOHN SARGENT (Mary Maloney '40)
MRS. HOMER JOY (Mary Bowne '30)	MRS. MARK VAN DOREN (Dorothy Graffe '18)

## ASSOCIATE ALUMNAE

### ALUMNAE TRUSTEES

MRS. WILLIAM GOSSETT  
(Elizabeth Hughes '29)  
MRS. WALTER WEST  
(Helen Crosby '13)

MRS. WILLIAM P. WHITE  
(Marian Churchill '29)  
MRS. FREDERICK WOODBRIDGE  
(Catherine Baldwin '27)

### PRESIDENTS OF ALUMNAE CLUBS

#### CALIFORNIA

Los Angeles County — Miss HENRIETTA SWOPE '25, 660 North Madison Avenue, Pasadena 4  
San Francisco Bay Area — Miss EDYTH FREDERICKS '06, 1870 Pacific Avenue, San Francisco 9

#### CONNECTICUT

Fairfield County — Mrs. DAVID A. SCHIRMER (Regina Hill '42),  
Ponus Ridge Road, New Canaan  
Hartford County — Mrs. ROBERT CORNELL (Pat Plummer '49), 72 Mountain Road, West Hartford  
New Haven — Mrs. ROBERT J. COOK (Edith Valet '12), 651 Prospect Street, New Haven 11

#### DELAWARE

Wilmington — Mrs. LAWRENCE AUSPOS (Doris Charlton '44), 404 Cleveland Avenue

#### DISTRICT OF COLUMBIA

Washington — Mrs. KARL GOLDBERG (Beatrice Laskowitz '50),  
3801 Connecticut Avenue, Washington 8

#### ILLINOIS

Chicago — Mrs. DANIEL PACHMAN (Vivian Futter '33), 8133 South Jeffrey Avenue, Chicago 17

#### MARYLAND

Baltimore — Mrs. FREDERICK SOBEL (Joan Borowik '47), 1120 Ramblewood Road, Baltimore 12

#### MASSACHUSETTS

Boston — Miss DIANNE HOWELL '44, 1200 Massachusetts Avenue, Cambridge 38

#### MICHIGAN

Detroit — Mrs. WILLIAM GOSSETT (Elizabeth Hughes '29), Goodhue Road, Bloomfield Hills

#### NEW JERSEY

Bergen County — Mrs. HENRY T. UPDEGROVE, JR. (Grace Reining '30), 1076 Sussex Road, West Englewood

#### NEW YORK

Brooklyn — Miss RITA RASMUSSEN '48, 6941 Ridge Boulevard, Brooklyn 9

## BARNARD COLLEGE

### NEW YORK—continued

- New York — Miss FLORRIE HOLZWASSER '11, Barnard College Club of New York, 140 East 63rd Street, New York 21
- Tri-City Group (Troy, Albany, Schenectady) — Mrs. PIERRE LAS-COMBE (Barbara Denneen '39), Woodlawn Avenue, RD 1, Rensselaer
- Westchester — Mrs. JOHN SARGENT (Mary Maloney '40), 130 Grandview Boulevard, Tuckahoe
- Western New York — Mrs. RUSSELL VAN STEENBURGH (Frances Conway '51), 111 Pryor Avenue, Tonawanda

### OHIO

- Cleveland — Mrs. STEPHEN MORRIS (Ann Ford '48), 2690 Eaton Road, Cleveland 18

### PENNSYLVANIA

- Philadelphia — Mrs. CHARLES STEHLE (Katharine Browne '25), Rydal
- Pittsburgh — Mrs. MILTON MALE (Maxine Rothschild '31), 210 Conover Road, Pittsburgh 8

### TEXAS

- Dallas — Dr. MARY JENNINGS '21, 3224 Caruth, Dallas 5
- Houston — Mrs. MELVIN FINCKE (Elizabeth Jervis '32), 910 Sul Ross

### WASHINGTON

- State-of-Washington — Mrs. HAROLD BLOOMEY (Florence Stoll '24), 2124 East 80th Street, Seattle 5

## REGIONAL COUNCILLORS

MRS. HERBERT W. ANDERSON  
(Alice Newman '22)  
Winding Brook Farm  
Prospectville, Pennsylvania

MRS. DANIEL BOONE  
(Marjorie Nichols '31)  
3444 Burns  
Detroit 14, Michigan

MRS. RALPH D. BOOTH  
(Mary Armstrong '26)  
Salem, New Hampshire

MRS. JAMES S. COLES  
(Martha Reed '37)  
85 Federal Street  
Brunswick, Maine

MRS. CHARLES HEMING  
(Lucile Wolf '19)  
63 DeSabla Road  
San Mateo, California

MISS MARGARET JANE FISCHER '35  
Zaleski  
Ohio

MRS. LINDSAY HOBEN  
(Margaret Pollitzer '15)  
4950 North Newhall Street  
Milwaukee 17, Wisconsin

MRS. R. HARTLEY SHERWOOD  
(Marjorie Brown '06)  
2844 North Pennsylvania Street  
Indianapolis 5, Indiana

College Calendar

1955-1956

## XIV. College Calendar

- Sept. 1 Thursday. Freshman interviews begin.
- Sept. 15 Thursday. Final payments due, Winter Session.
- Sept. 26 Monday through Sept. 28, Wednesday. Registration in person for all students. The privilege of later registration may be granted on payment of a fee of \$15.
- Sept. 27 Tuesday. Foreign language tests.
- Sept. 29 Thursday. Winter Session, sixty-seventh year begins. Classes begin, 9 a.m. Convocation, 1 p.m.
- Nov. 8 Tuesday. Election Day. Holiday.
- Nov. 22 Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
- Nov. 24 Thursday, through Nov. 27, Sunday. Thanksgiving holidays.
- Dec. 21 Wednesday, through Jan. 3, 1956, Tuesday. Christmas holidays. Residence halls closed.
- Jan. 15 Sunday. Annual Commemoration Service in St. Paul's Chapel.
- Jan. 16 Monday. Final payments due, Spring Session.
- Jan. 23 Monday. Mid-year examinations begin.
- Feb. 6 Monday and Feb. 7, Tuesday. Registration for students entering in February. The privilege of later registration may be granted on payment of a fee of \$15.
- Feb. 8 Wednesday. Spring Session begins. Classes begin, 9 a.m.
- Feb. 22 Wednesday. Washington's Birthday. Holiday.
- March 1 Thursday. Last day for filing applications for non-competitive scholarships, grants-in-aid, and residence grants.
- March 25 Sunday, through April 1, Sunday. Easter holidays.
- May 14 Monday, through May 19, Saturday, seniors excused from class attendance.
- May 15 Tuesday, through May 17, Thursday. Major examinations.
- May 21 Monday. Final examinations begin.
- May 30 Wednesday. Memorial Day. A university holiday except for scheduled examinations.
- June 3 Sunday. Baccalaureate Service.
- June 5 Tuesday. Conferring of degrees.
- July 4 Wednesday. Independence Day. Holiday.
- July 9 Monday. Fifty-seventh Summer Session of Columbia University begins.
- Aug. 17 Friday, Fifty-seventh Summer Session ends.
- Sept. 4 Tuesday. Freshmen interviews begin.
- Sept. 15 Saturday. Final payments due, Winter Session.
- Sept. 24 Monday through Sept. 26, Wednesday. Registration in person for all students. The privilege of later registration may be granted on payment of a fee of \$15.
- Sept. 27 Thursday. Winter Session, sixty-eighth year begins. Classes begin 9 a.m. Convocation, 1 p.m.

SEPTEMBER, 1955						
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# CALENDAR FOR 1955-1956

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JANUARY, 1956						
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SEPTEMBER, 1956						
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